

FIG. 1

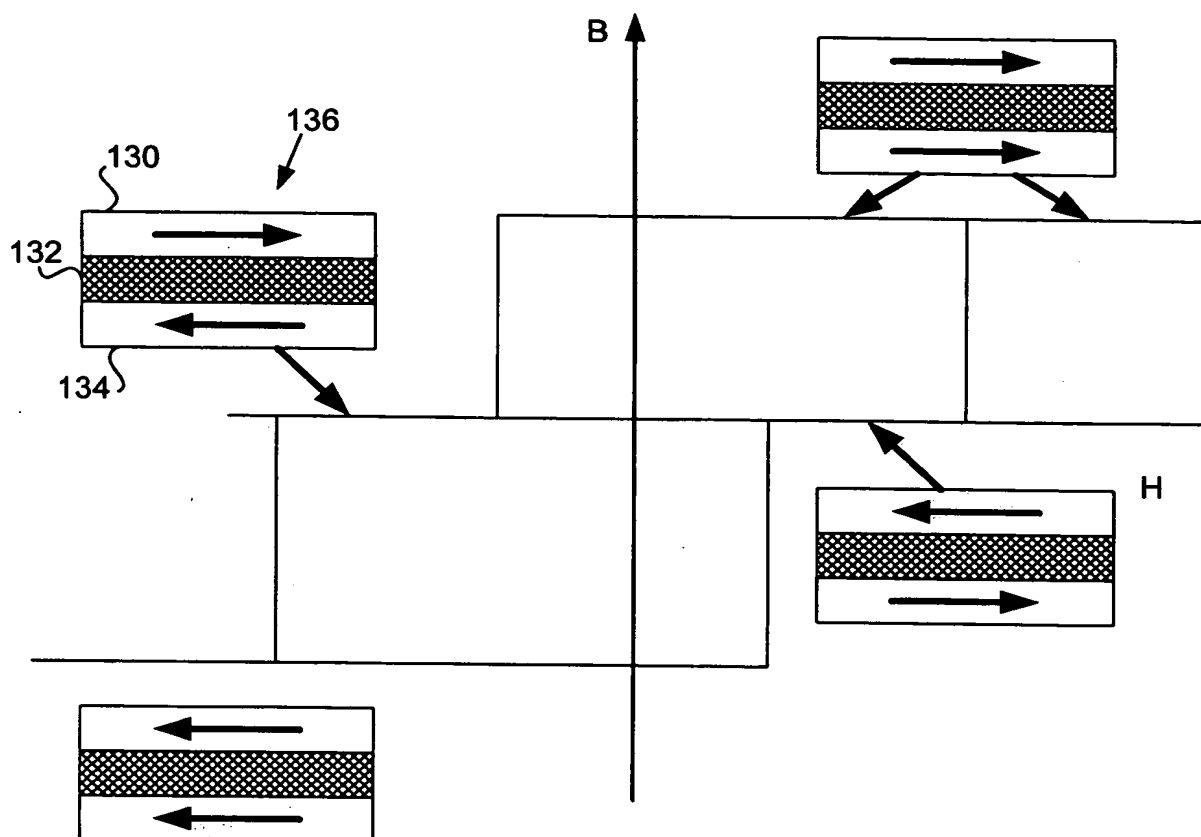
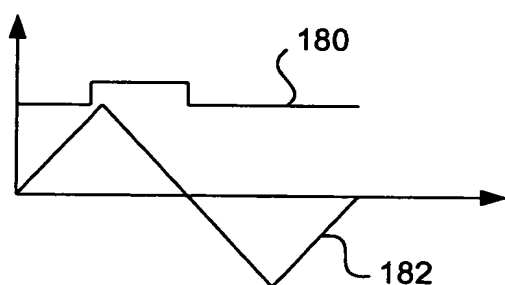
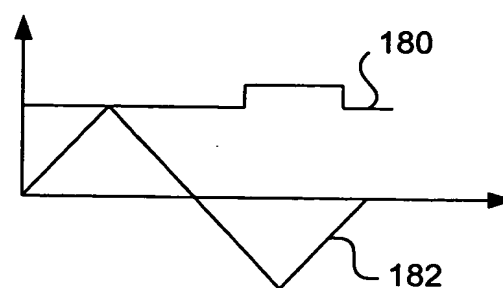


FIG. 2



(a)



(b)

FIG. 3

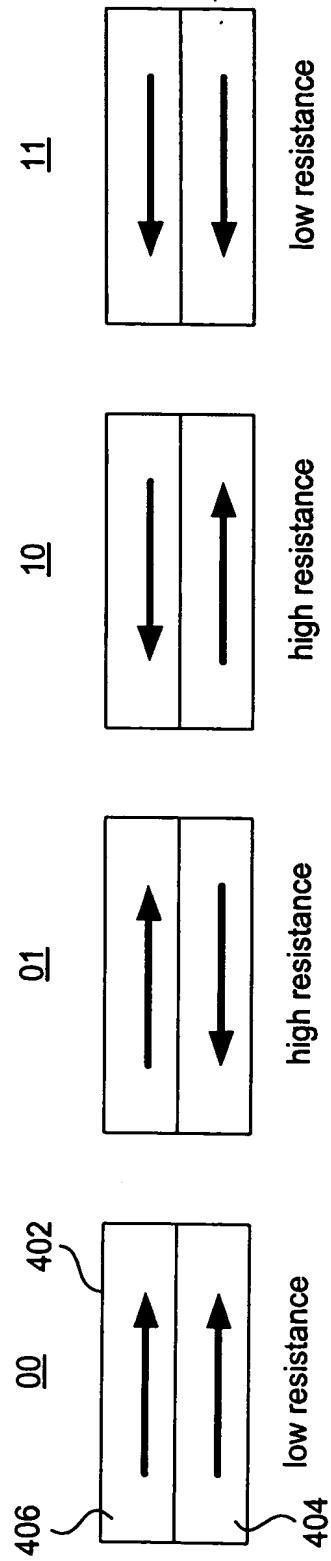


FIG. 4

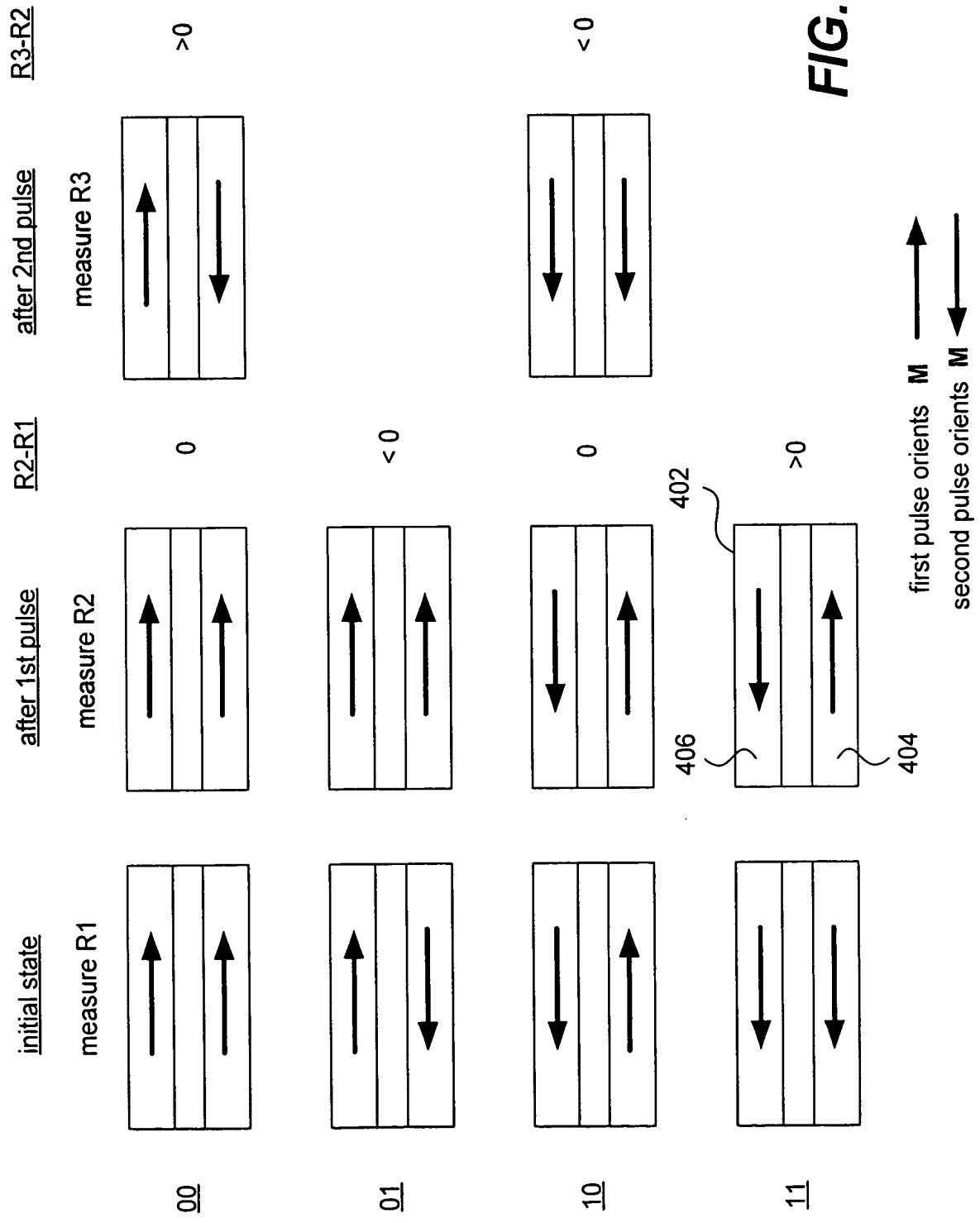


FIG. 5

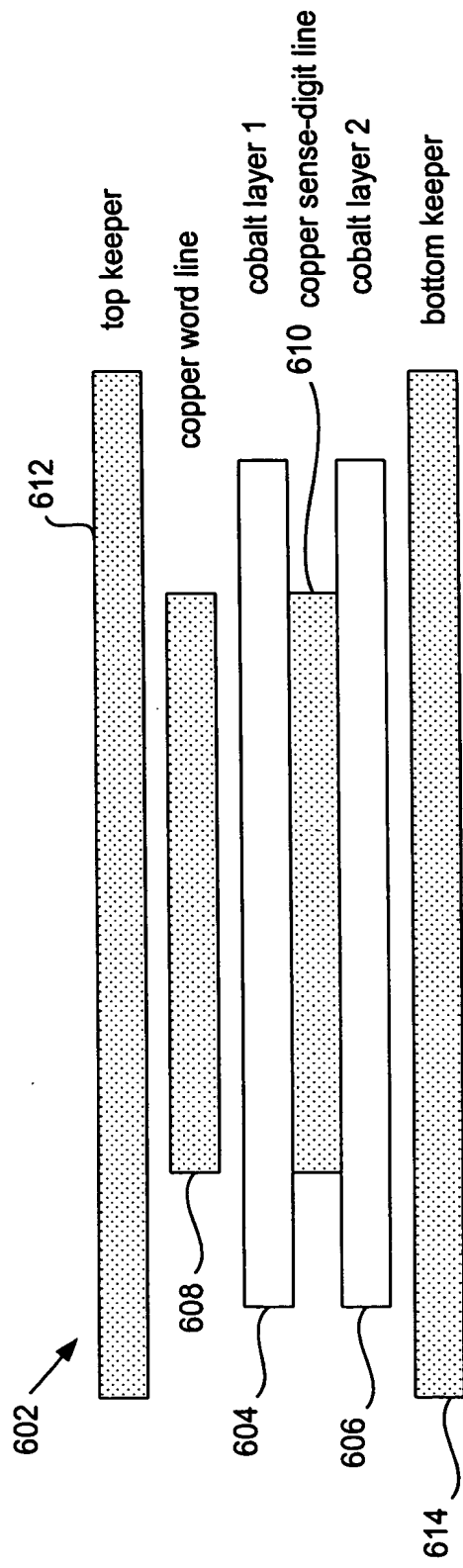


FIG. 6

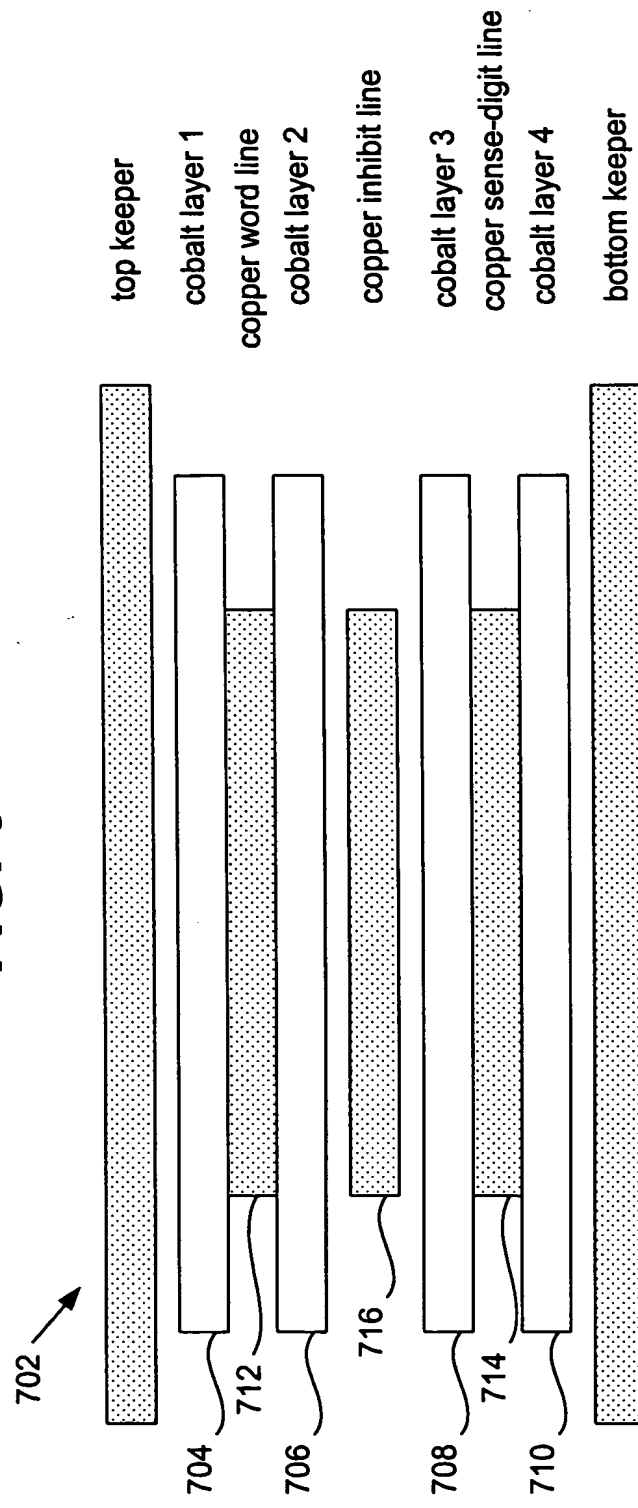


FIG. 7

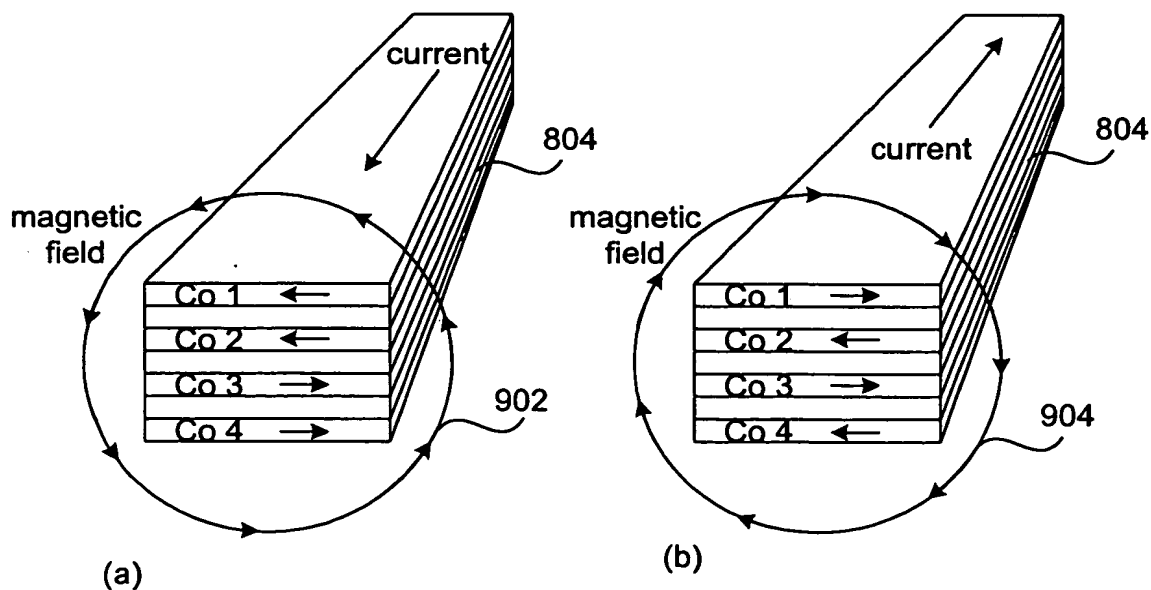
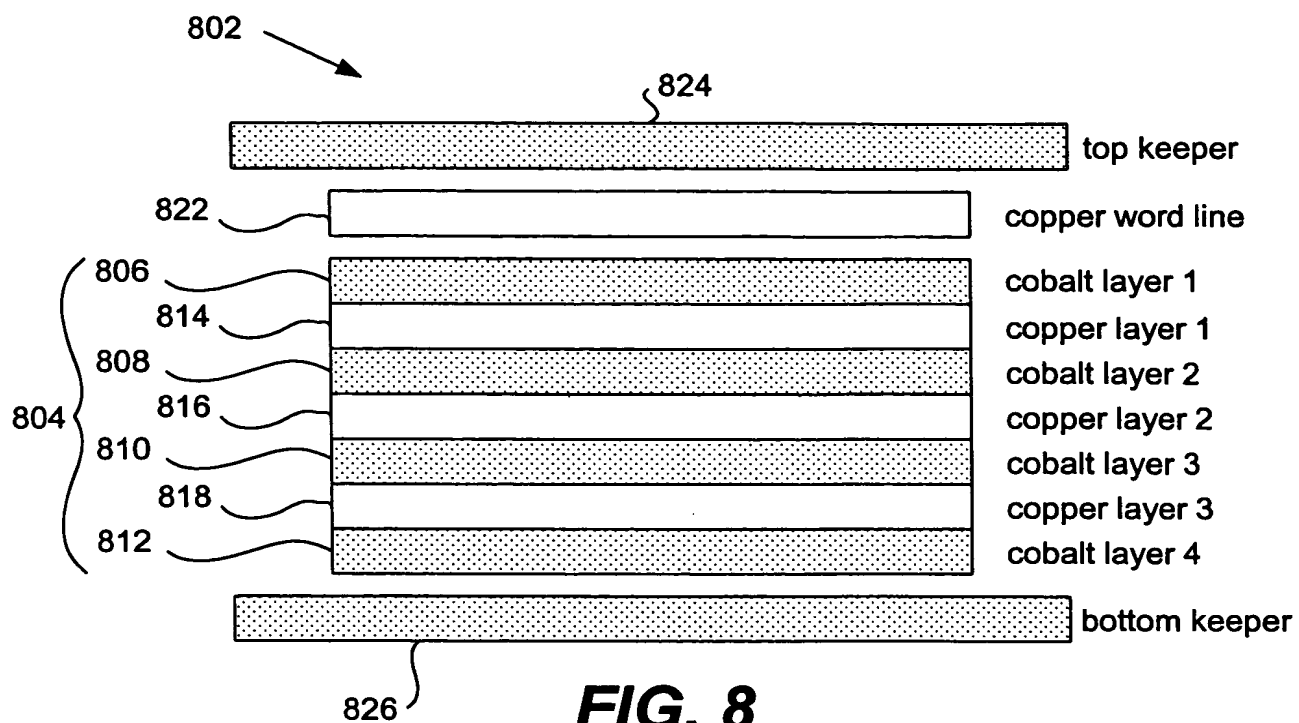


FIG. 9

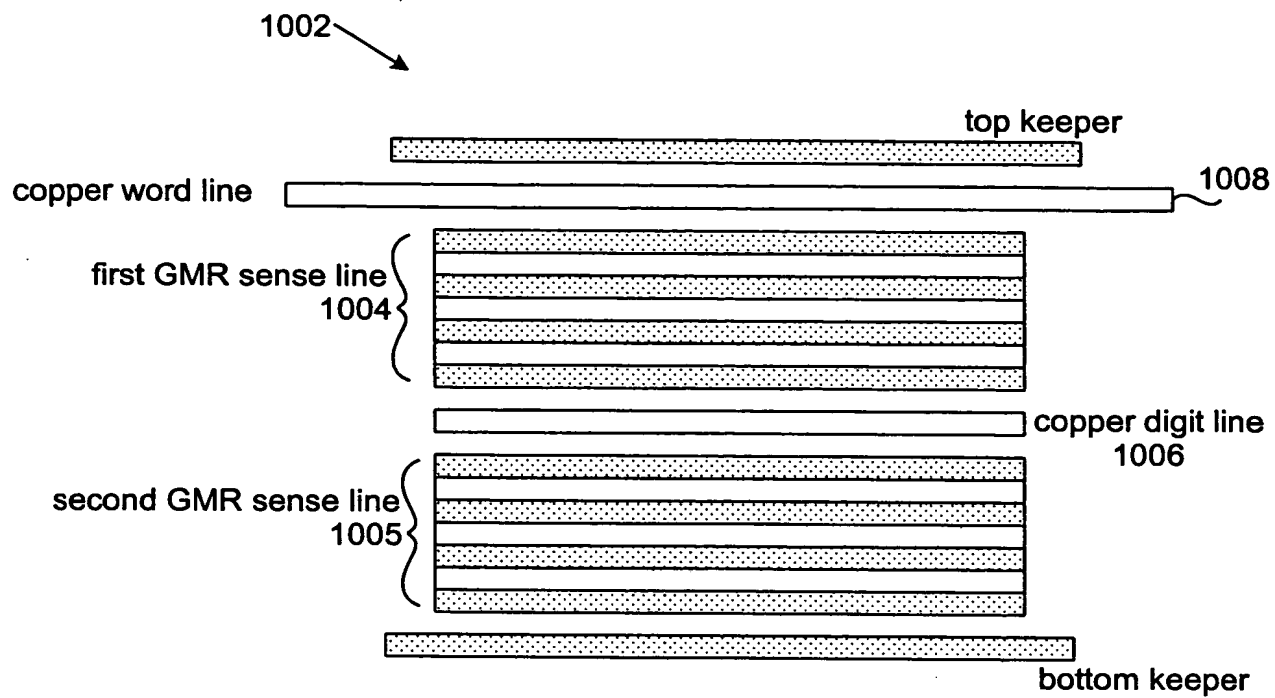


FIG. 10

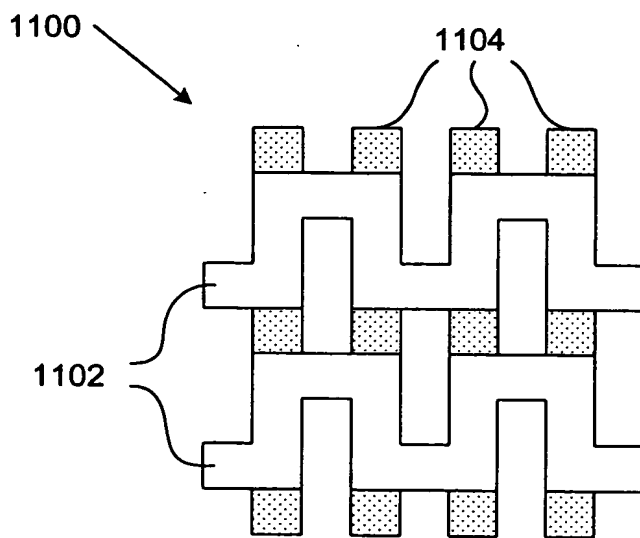


FIG. 11

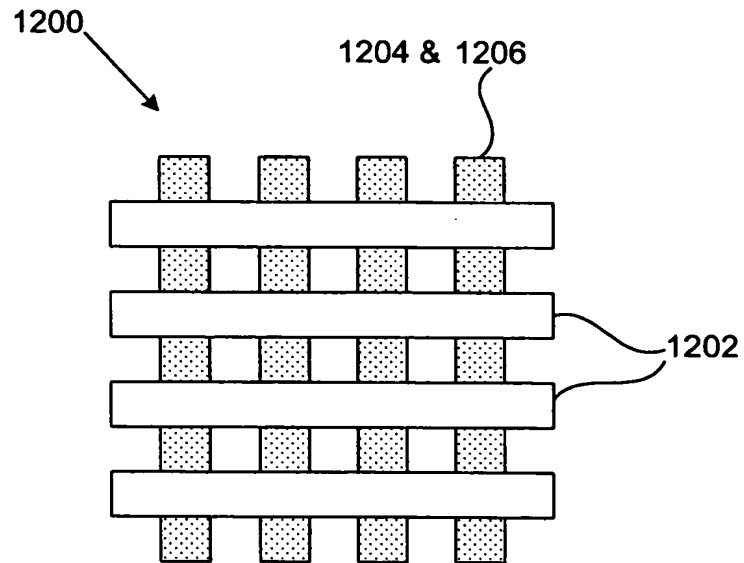


FIG. 12a

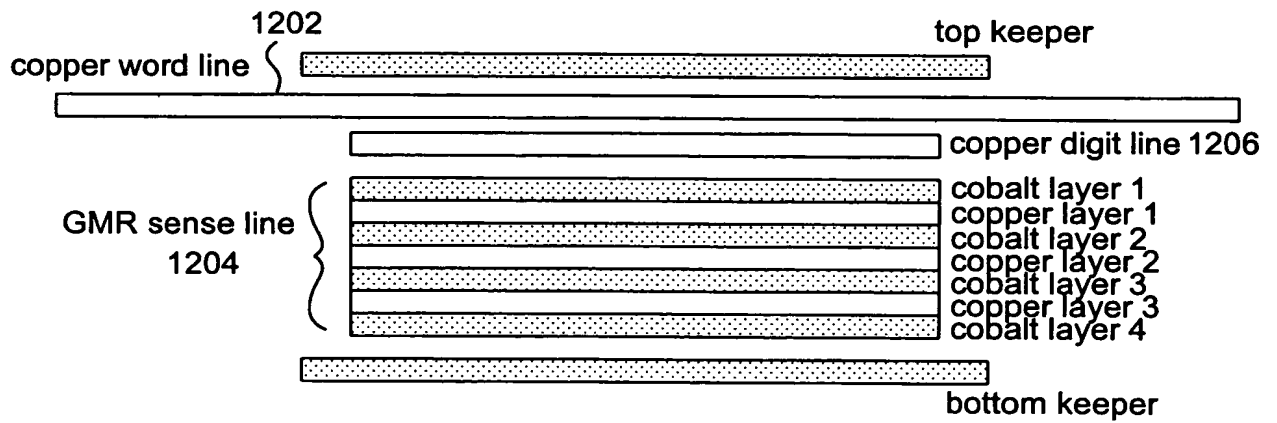


FIG. 12b

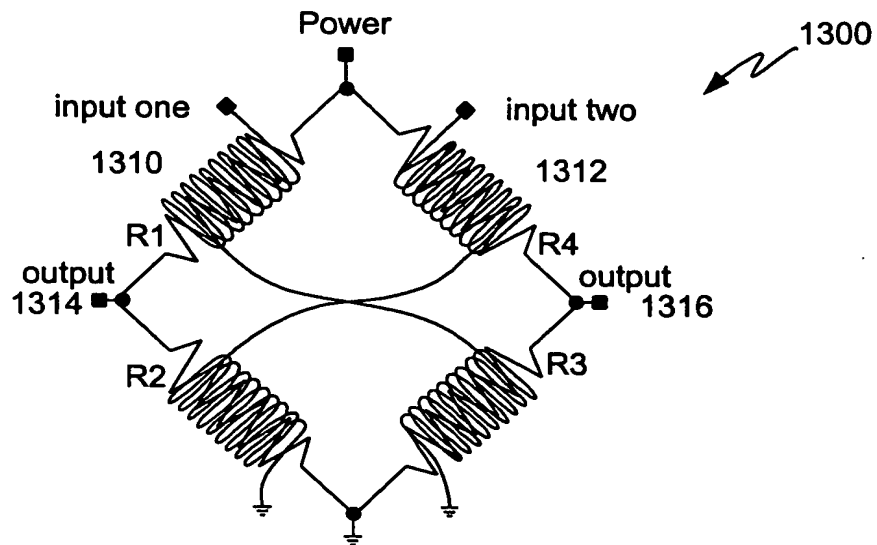


FIG. 13

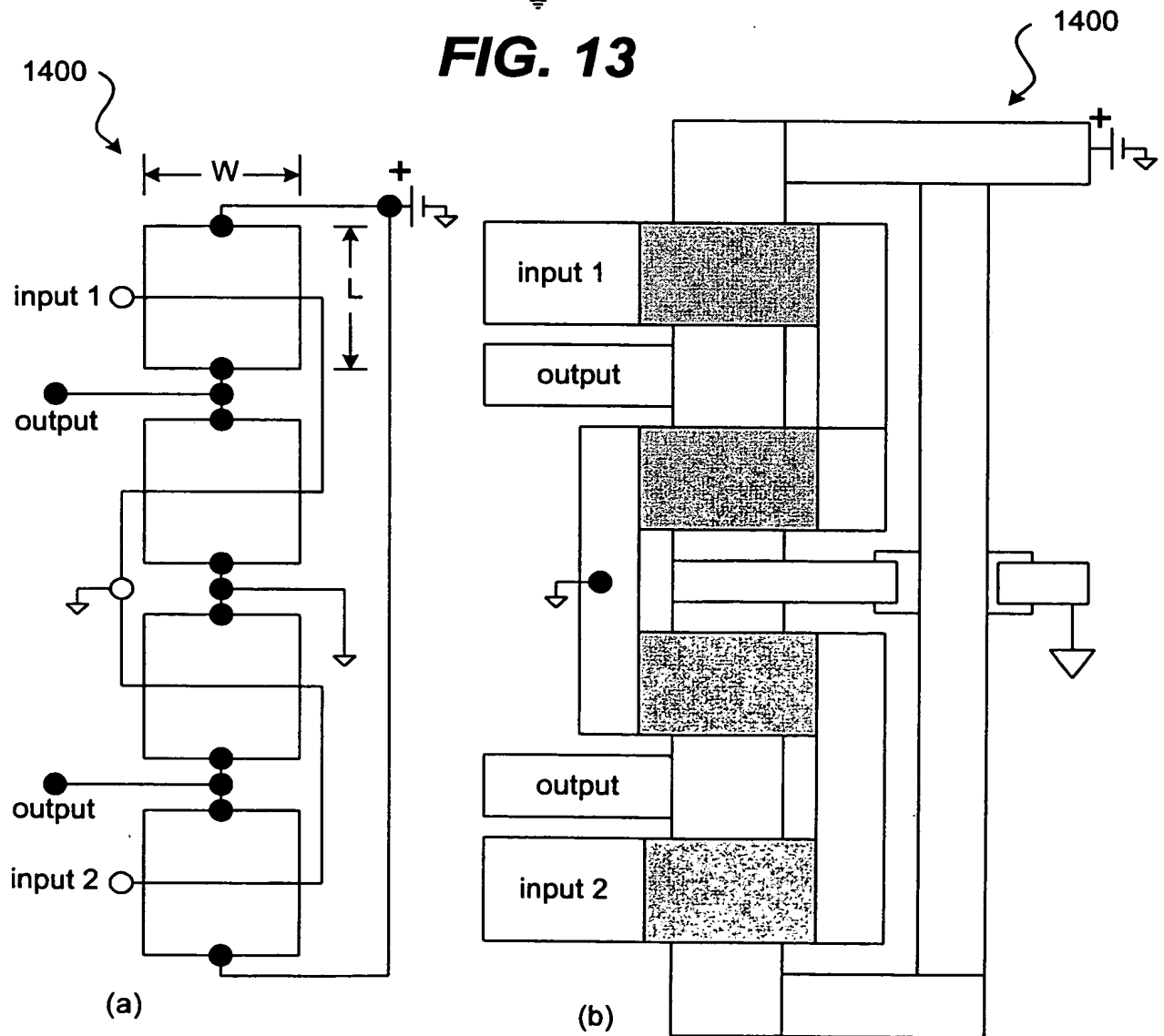


FIG. 14

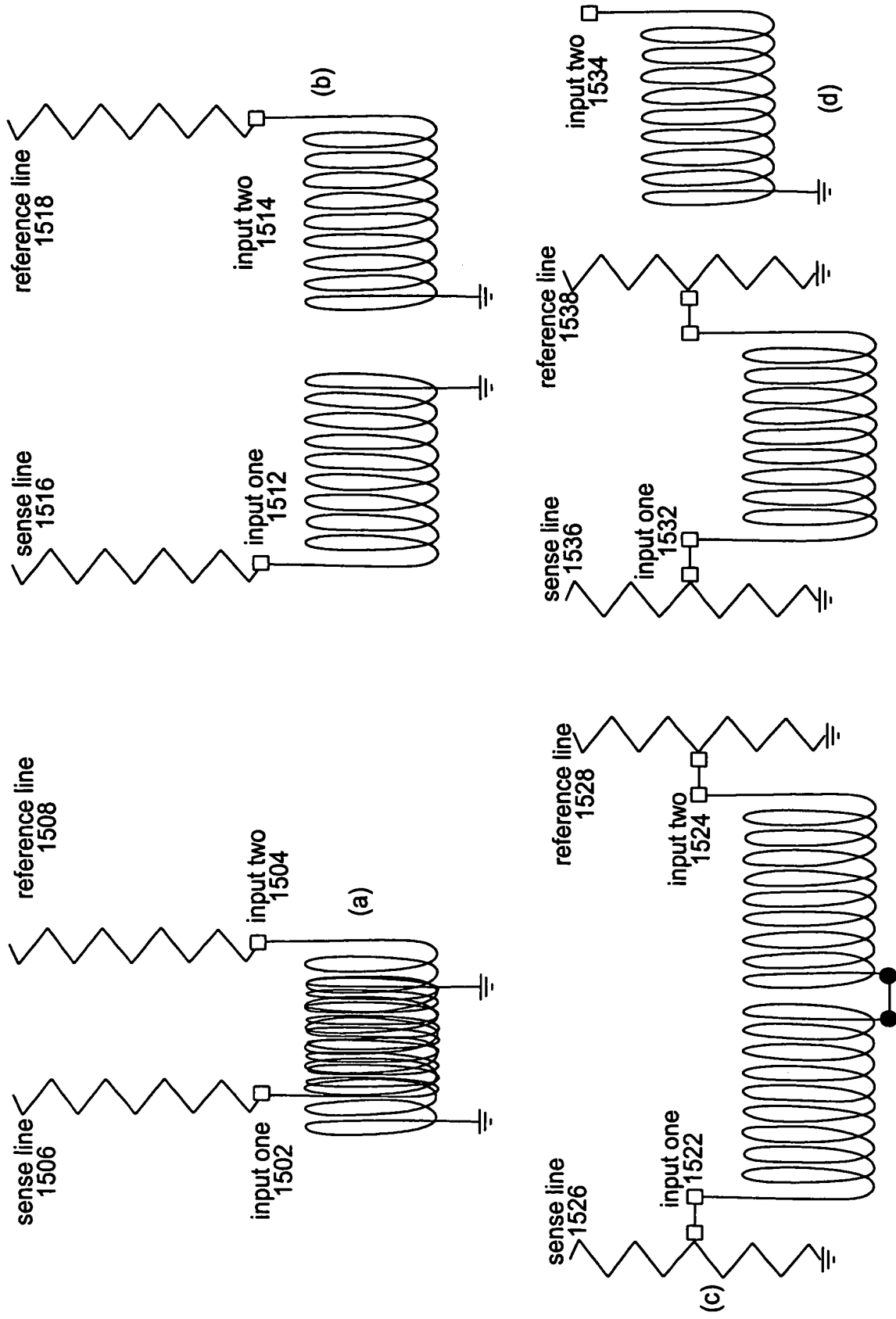


FIG. 15

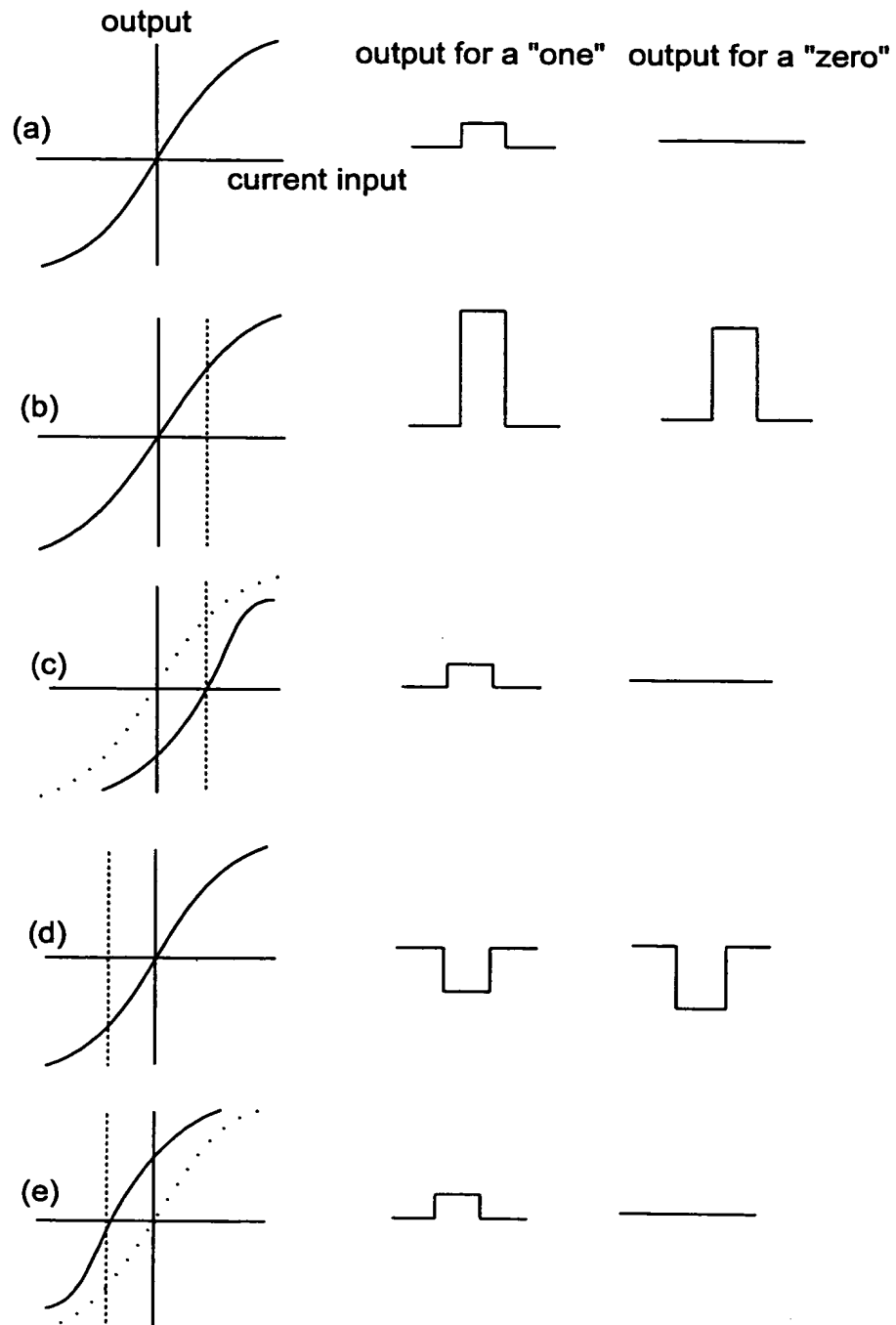


FIG. 16

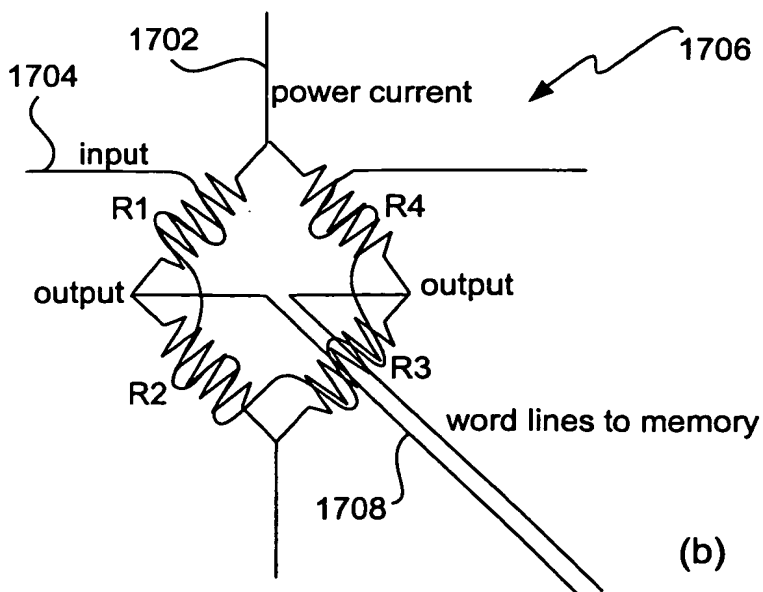
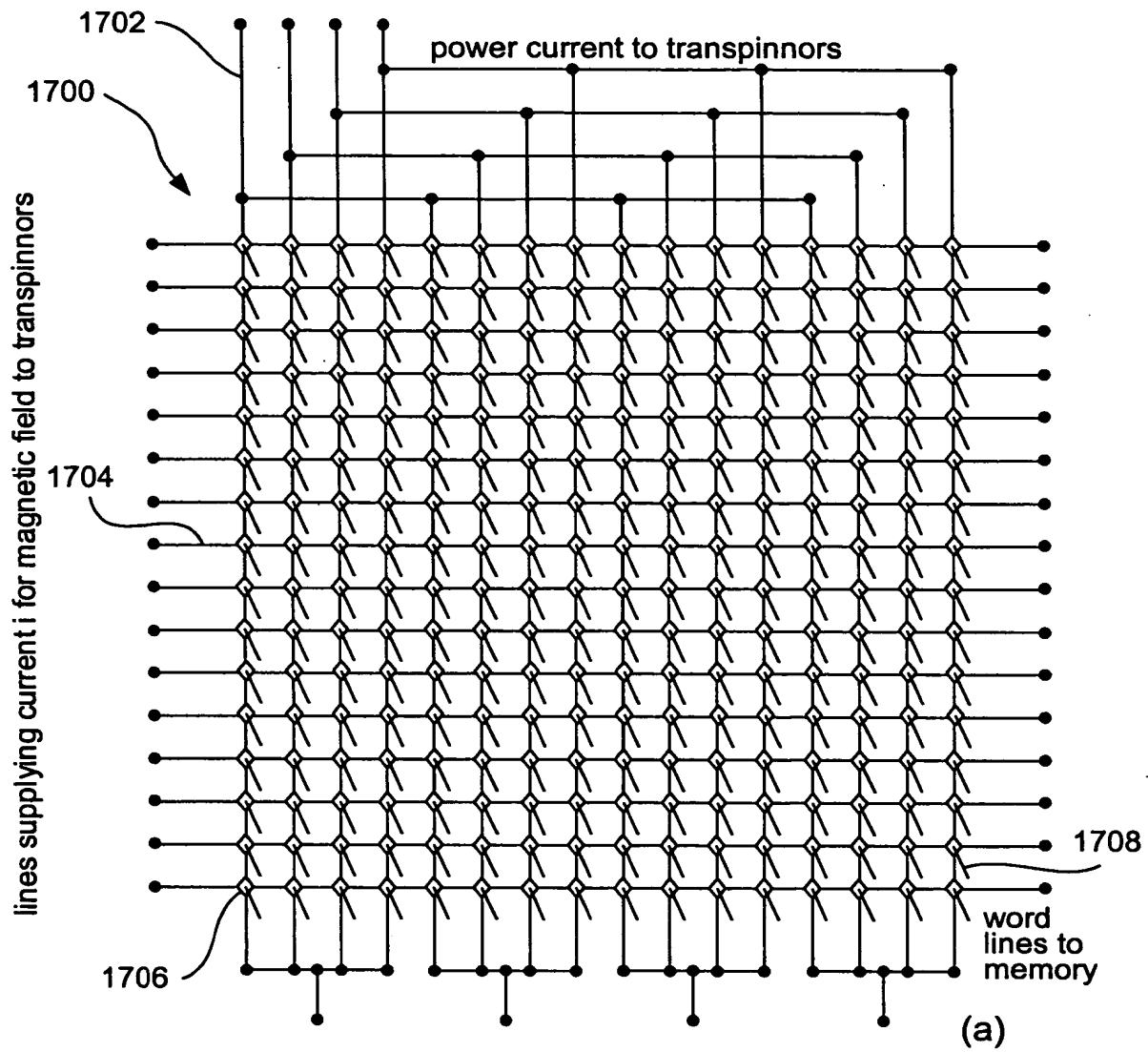


FIG. 17

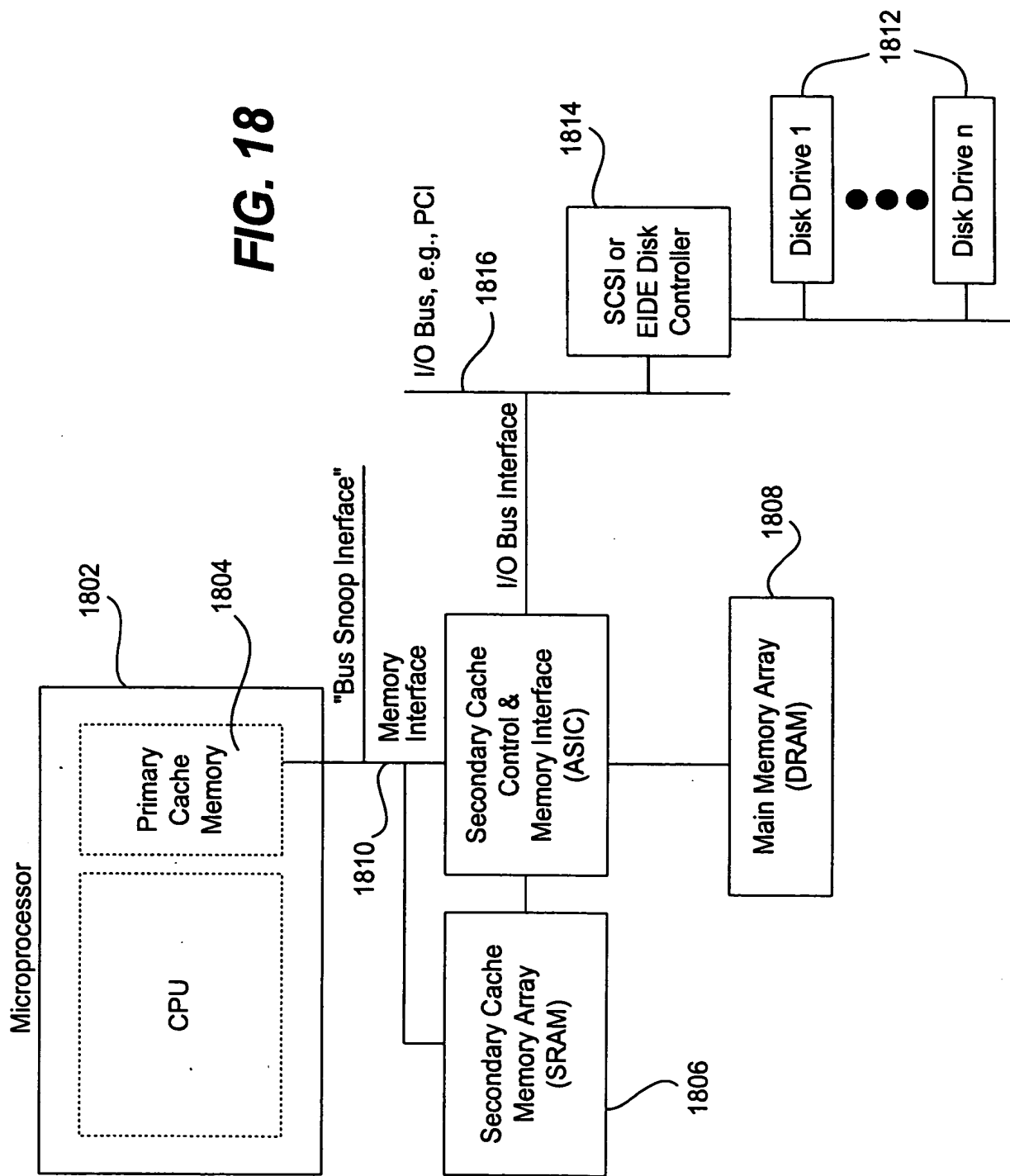


FIG. 18

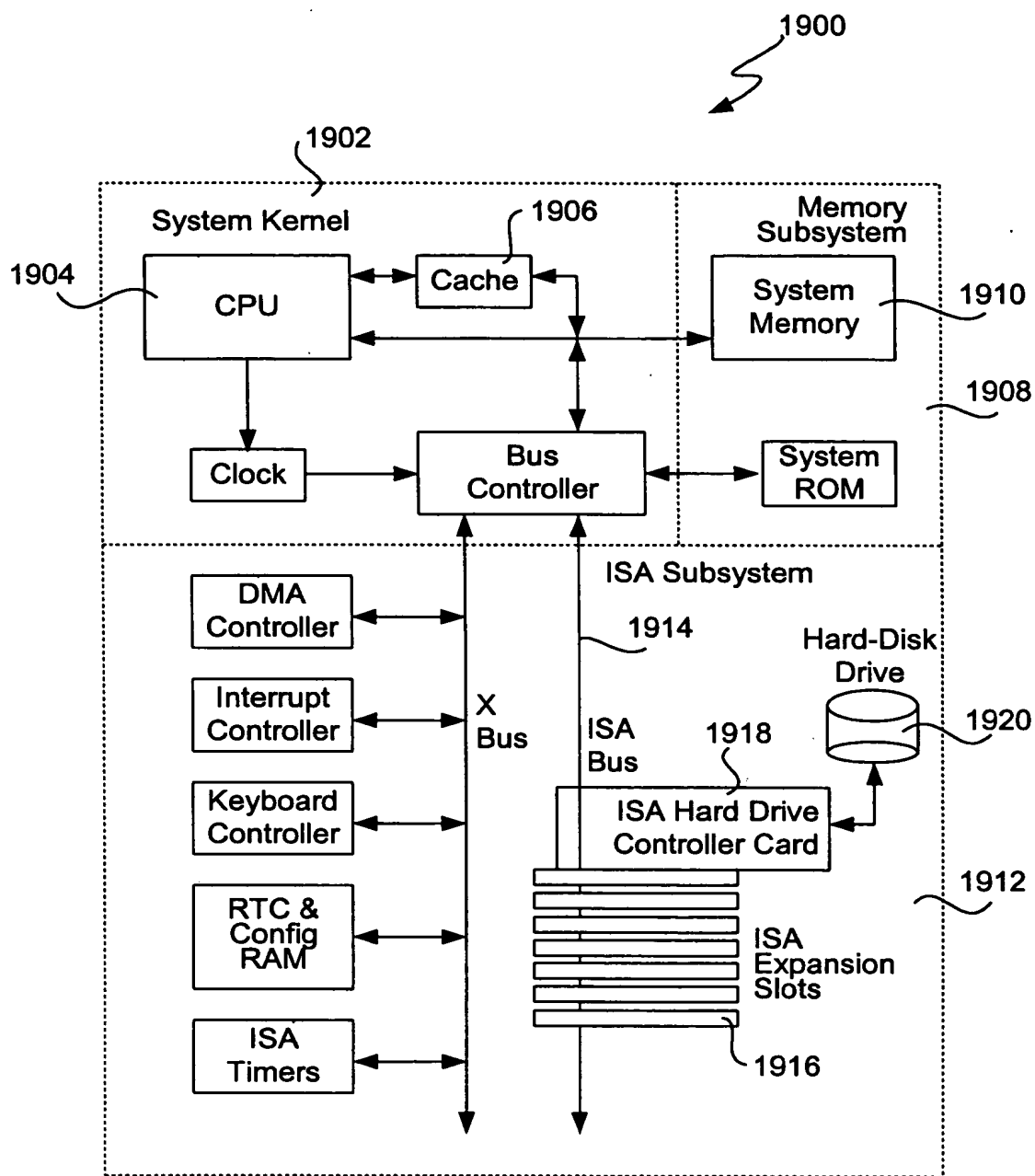


FIG. 19a

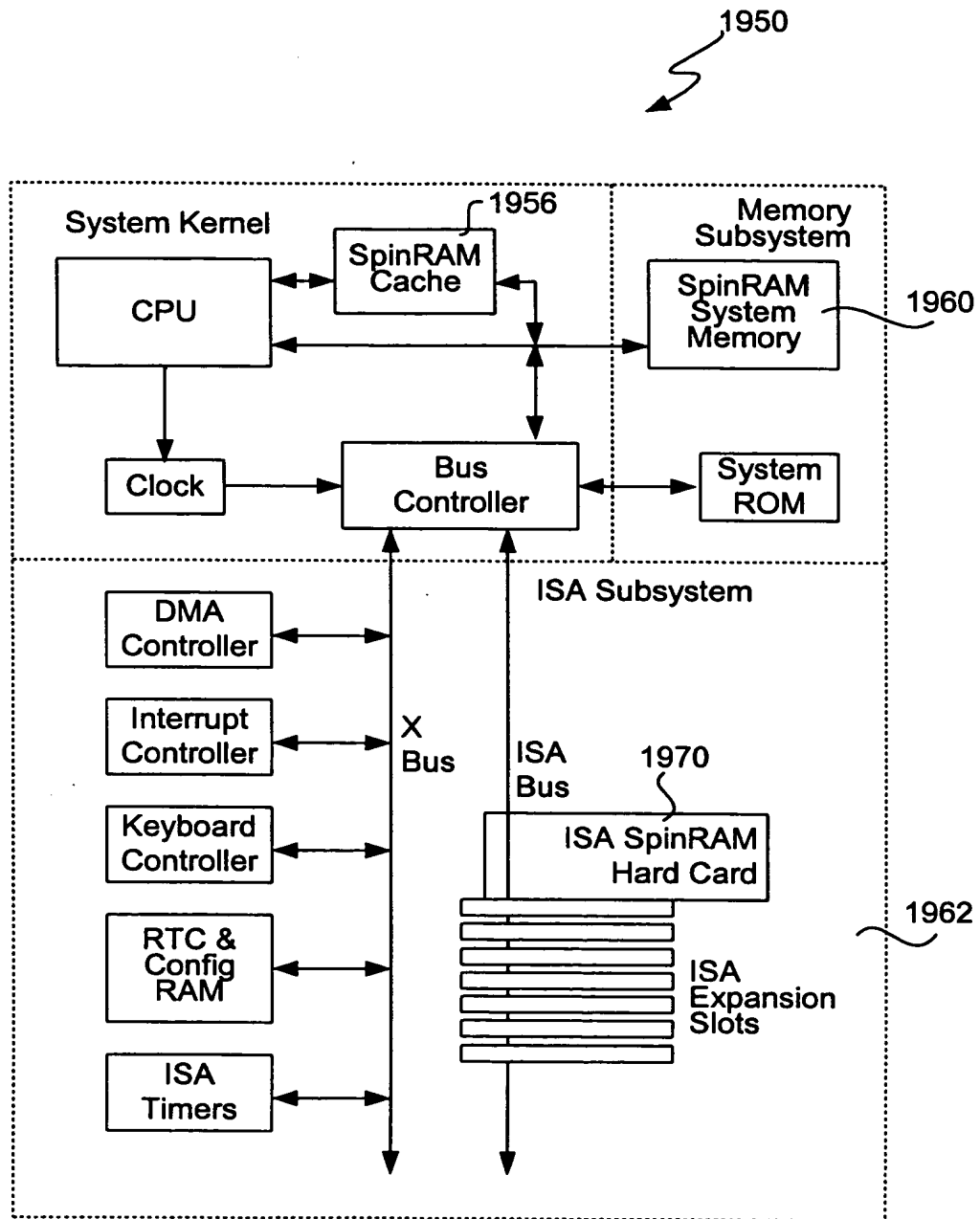


FIG. 19b

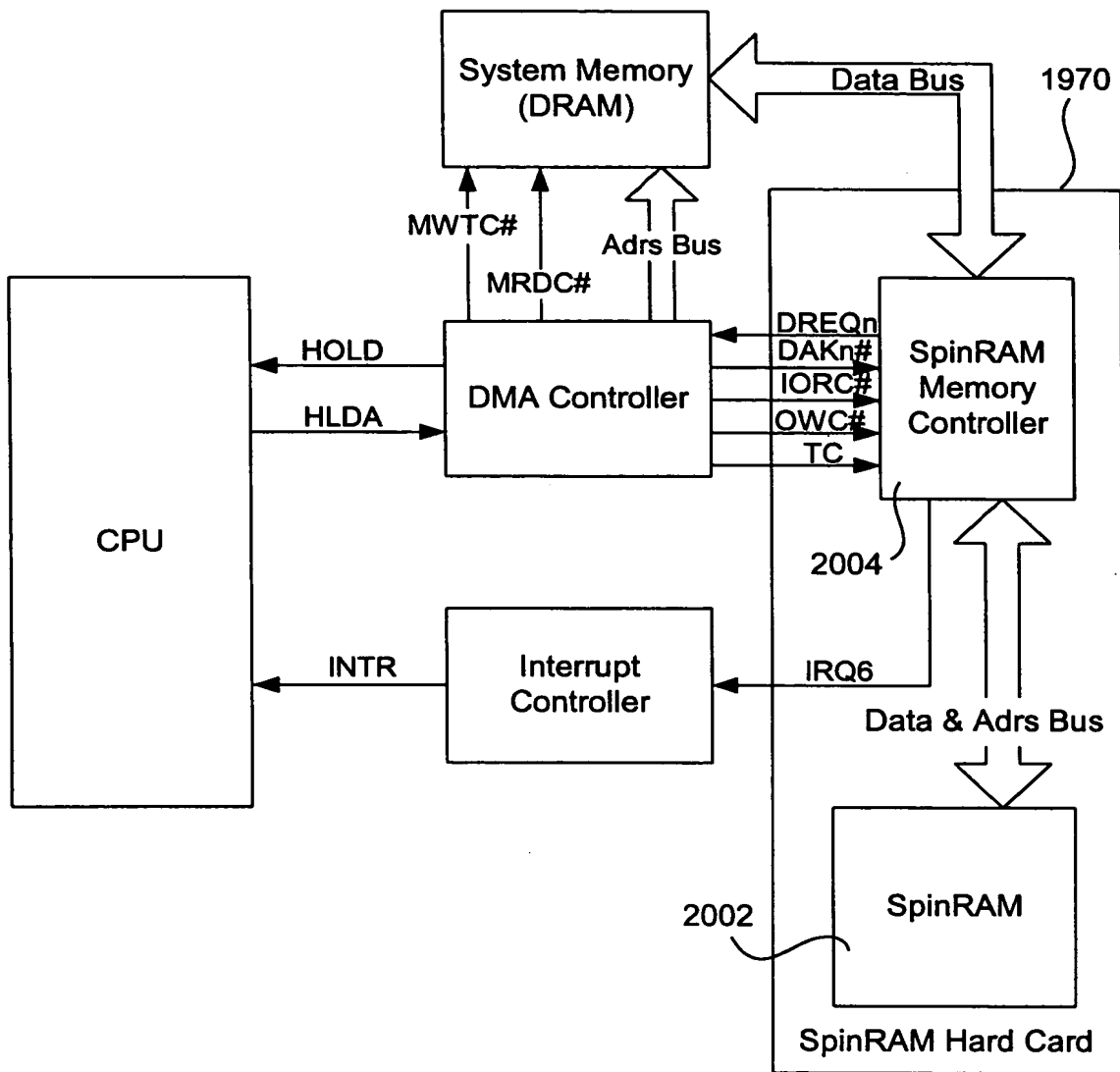


FIG. 20

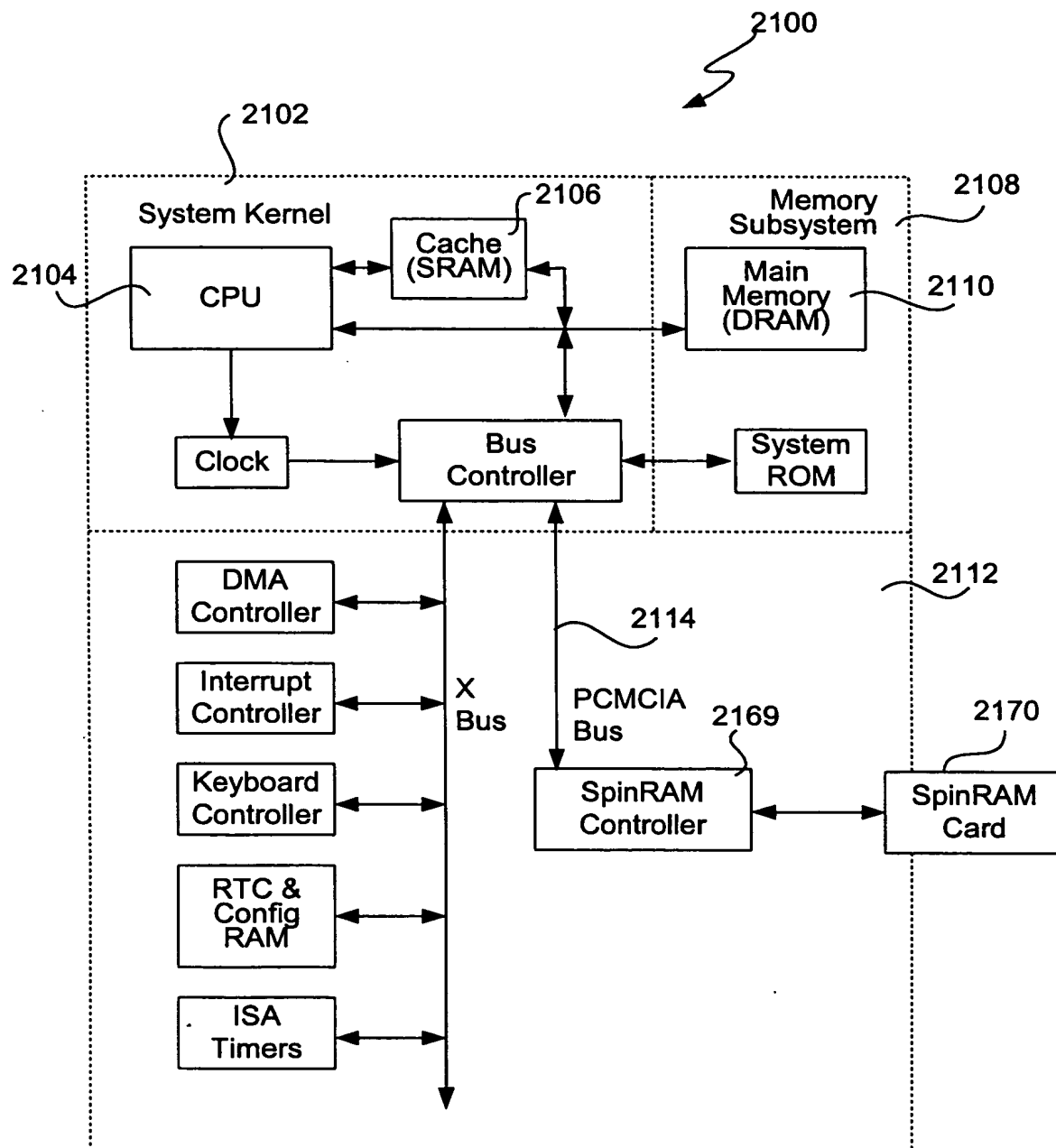


FIG. 21

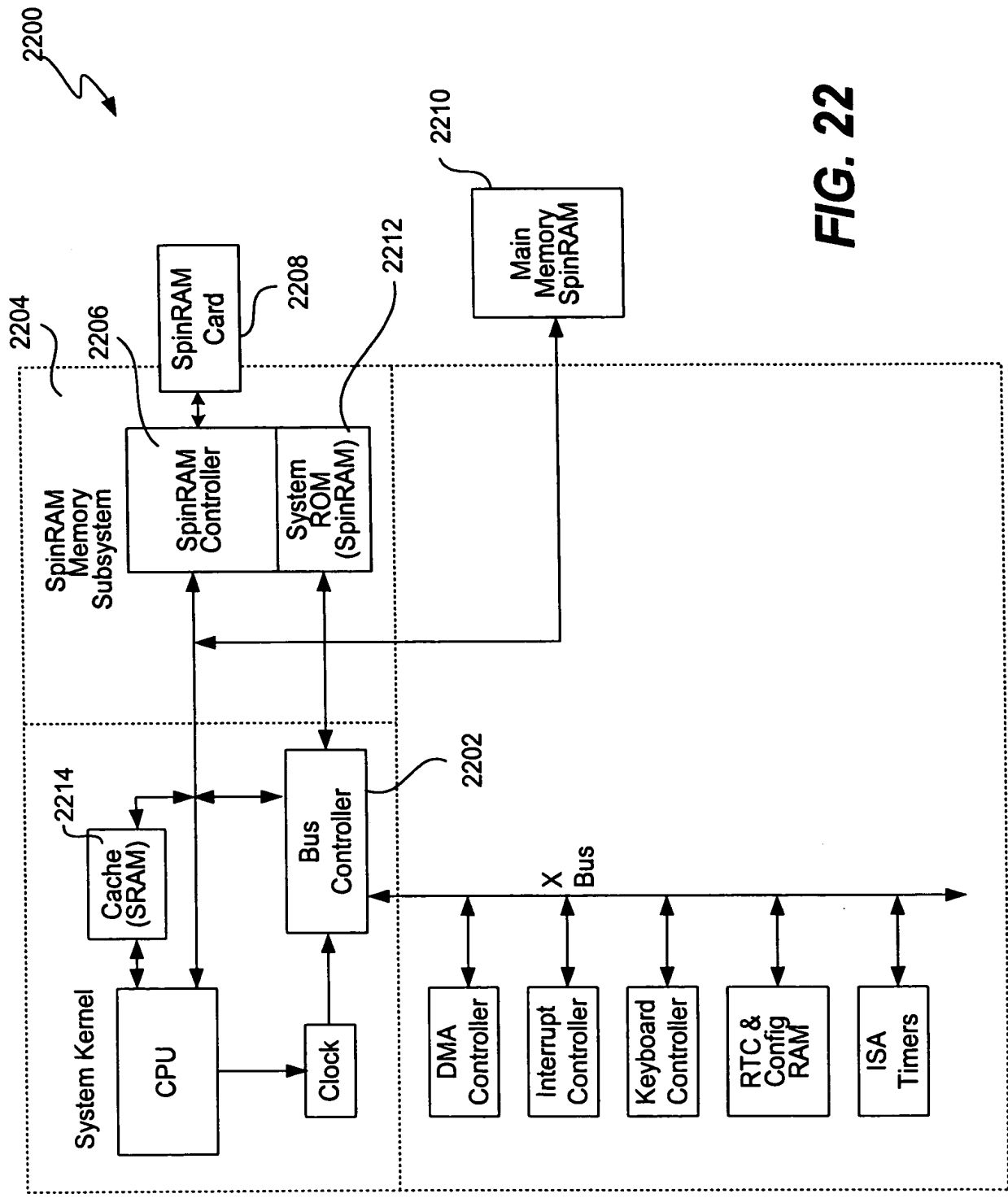


FIG. 22

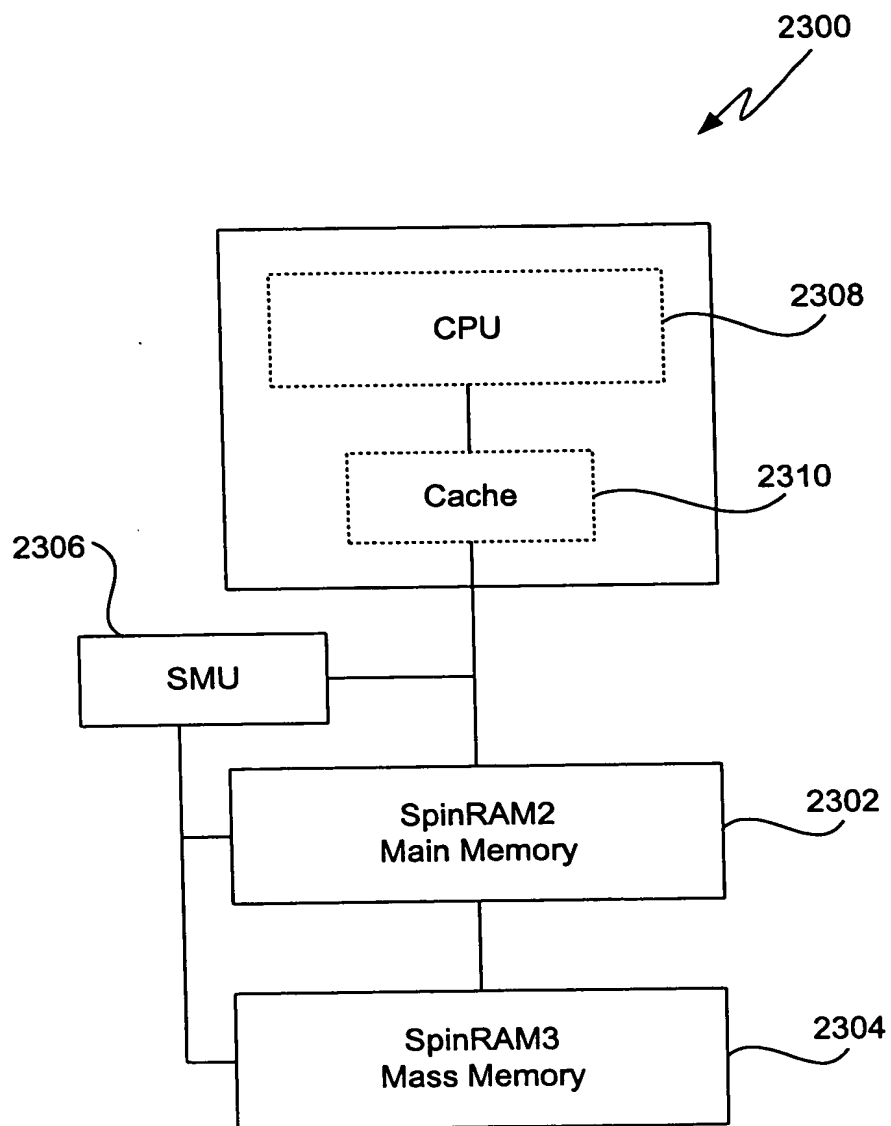


FIG. 23

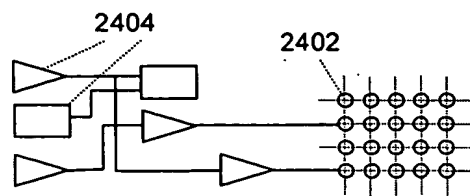


FIG. 24

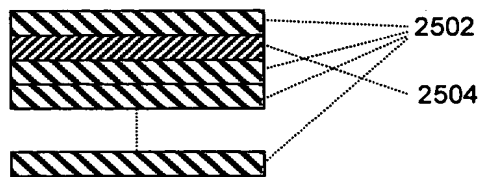


FIG. 25

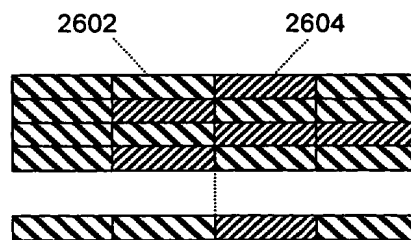


FIG. 26



FIG. 27

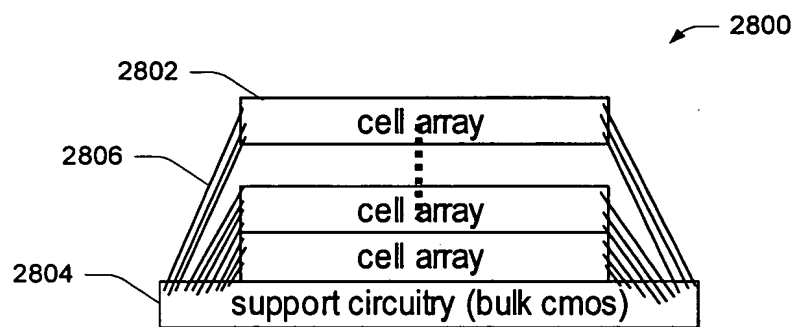


FIG. 28

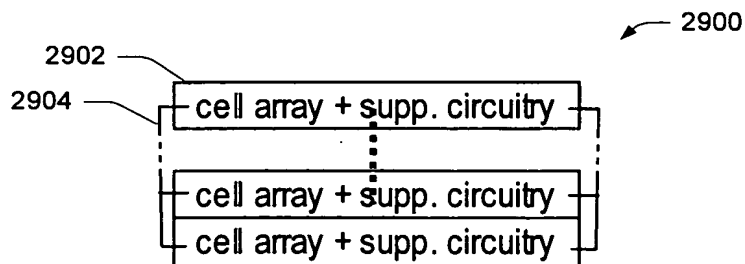


FIG. 29

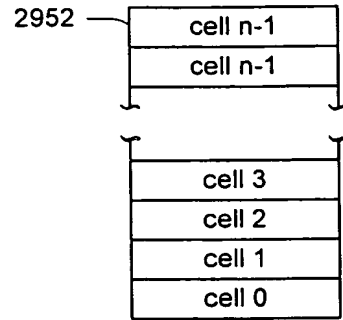


FIG. 29A

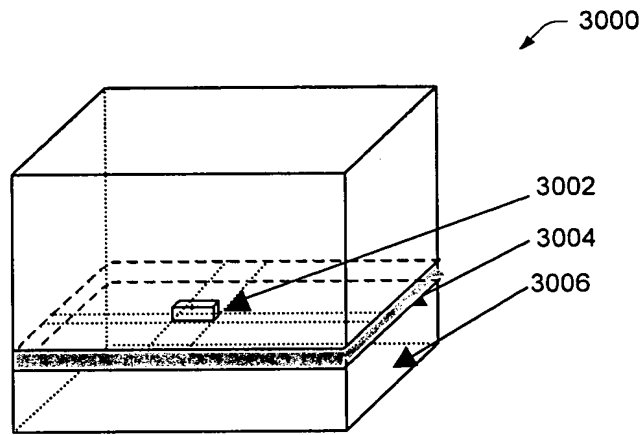


FIG. 30

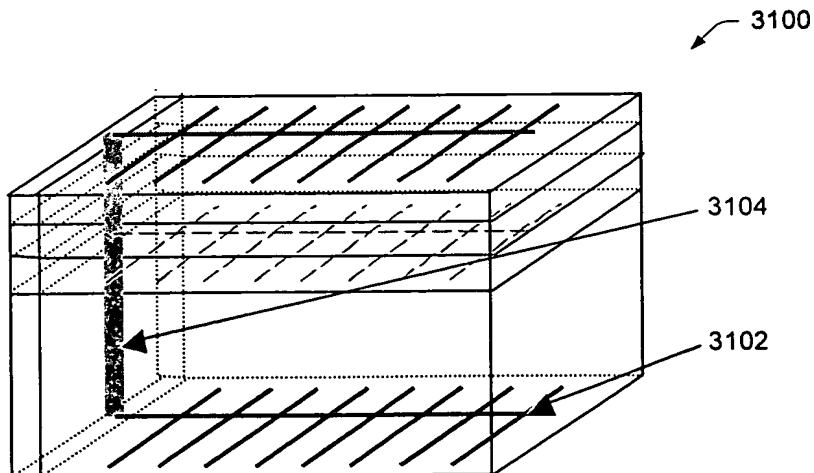


FIG. 31

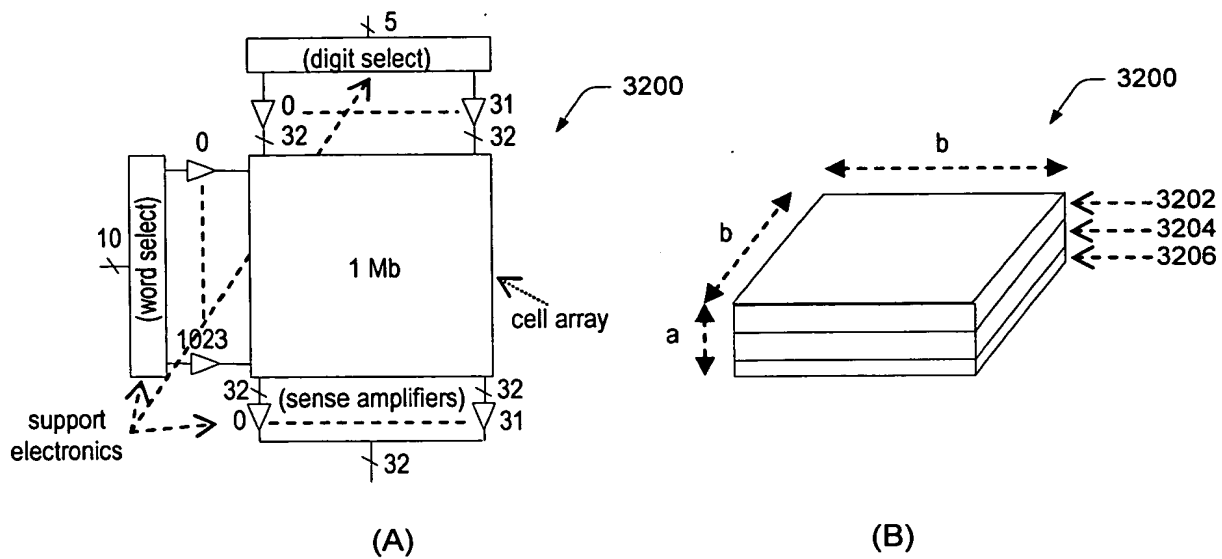


FIG. 32

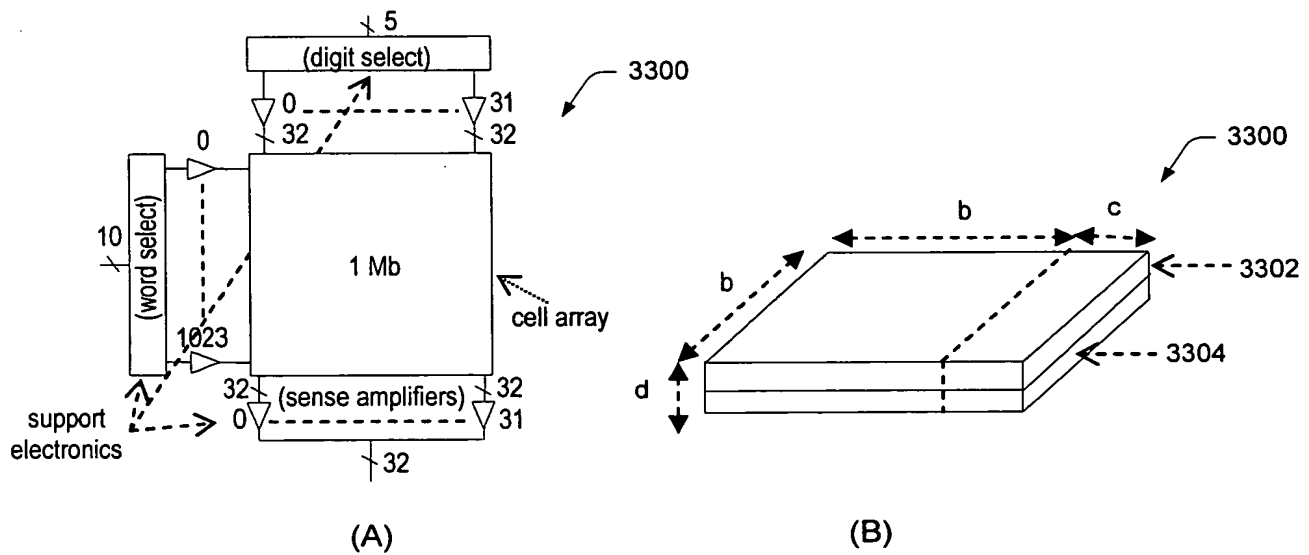


FIG. 33

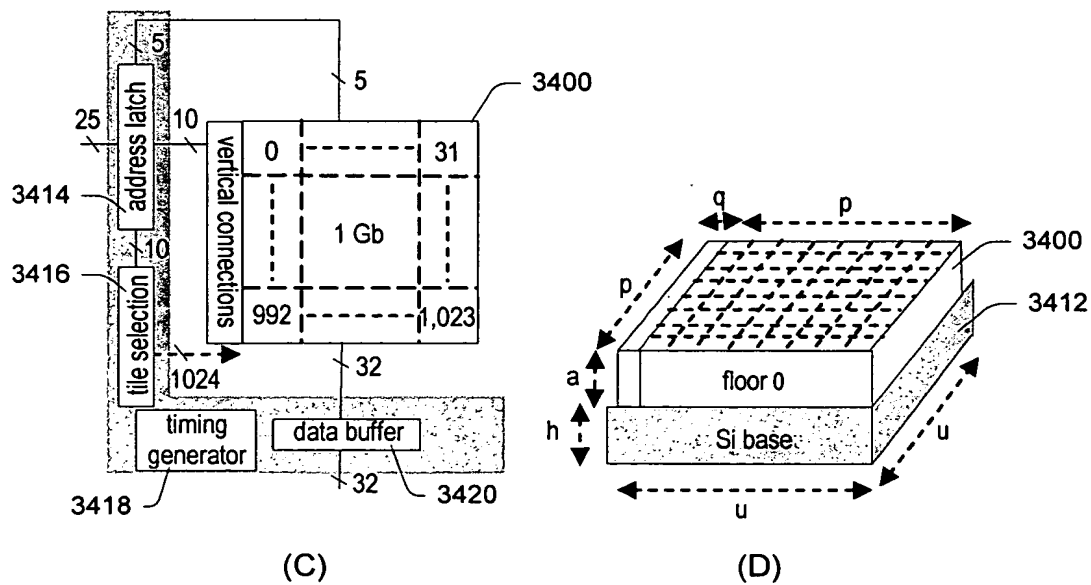
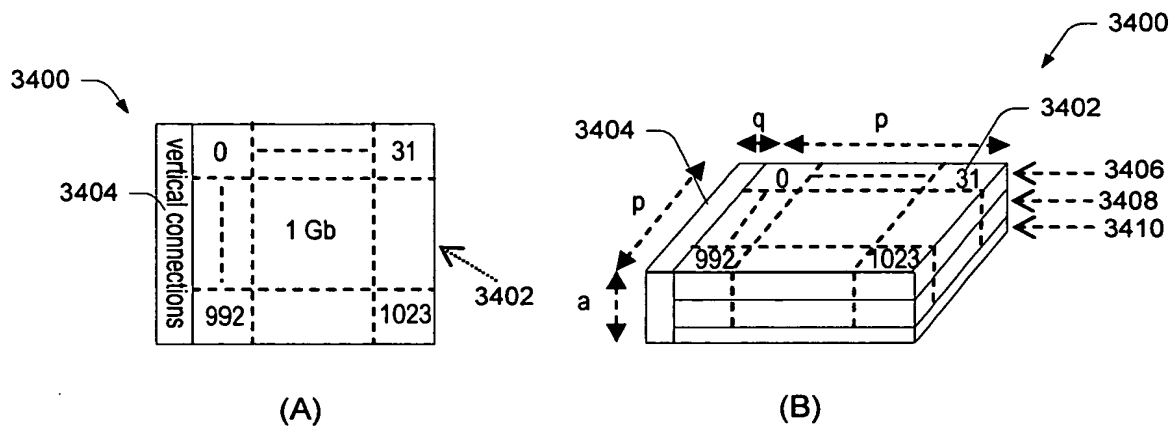


FIG. 34

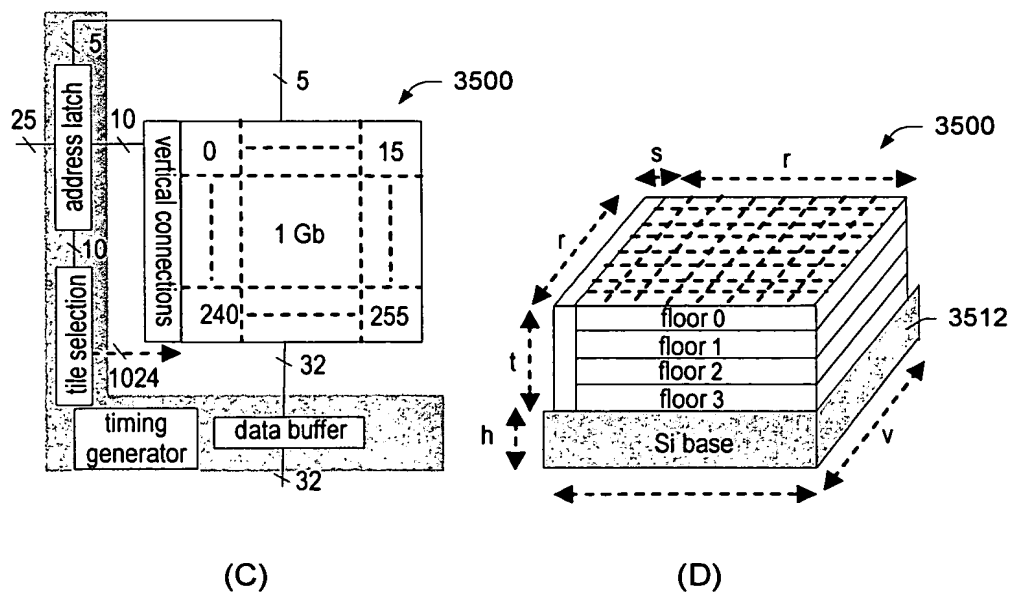
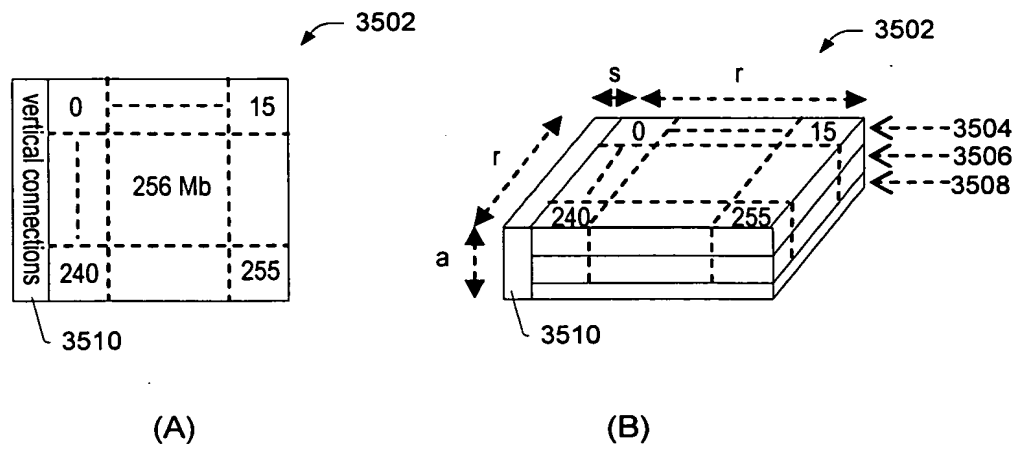
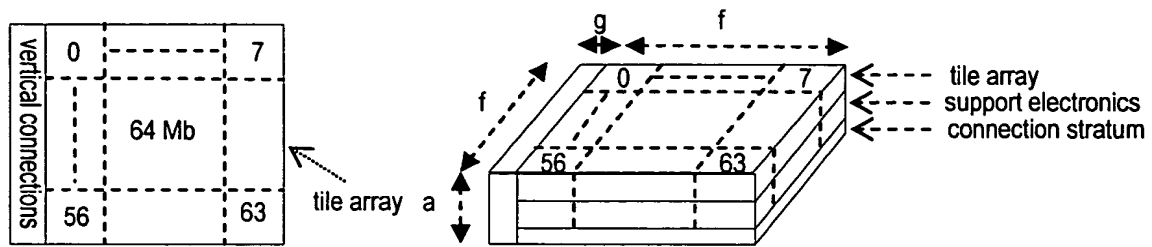
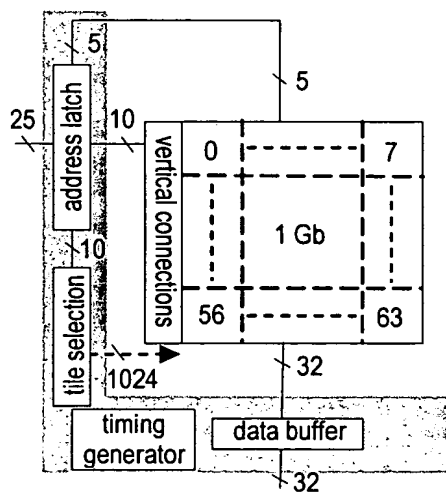


FIG. 35

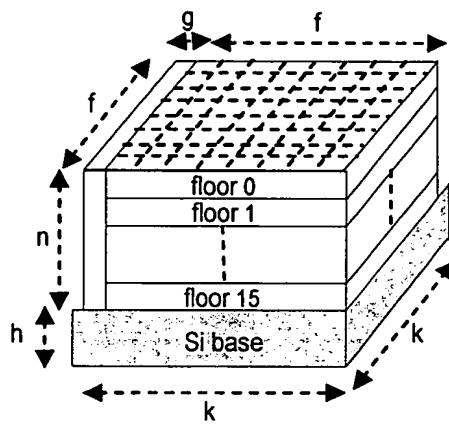


(A)

(B)

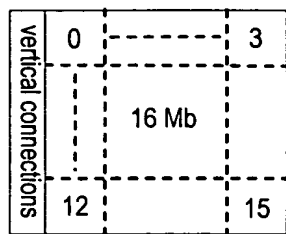


(C)

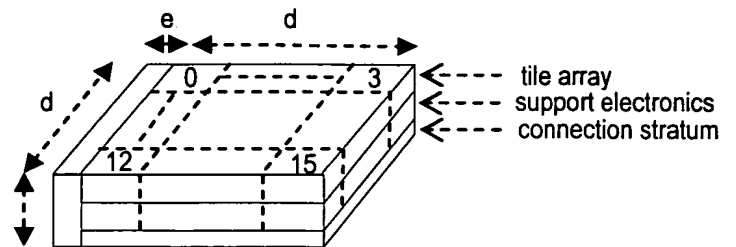


(D)

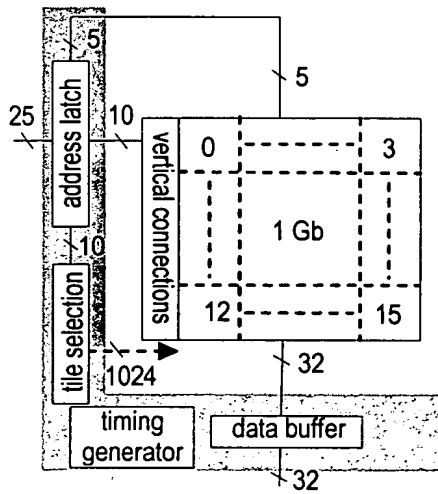
FIG. 36



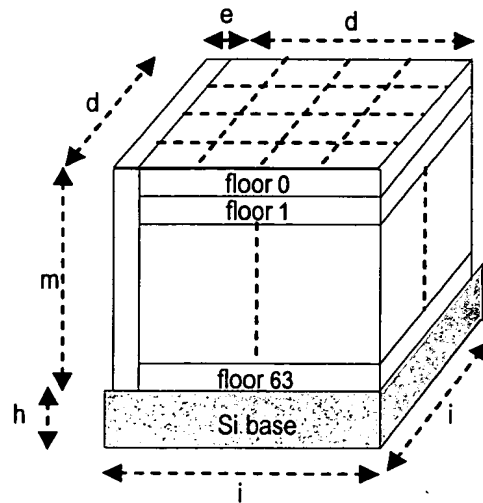
(C)



(D)



(C)



(D)

FIG. 37

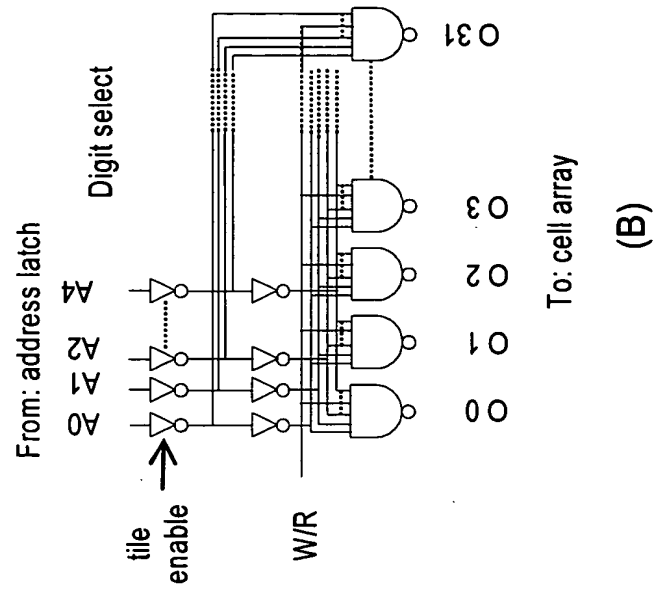
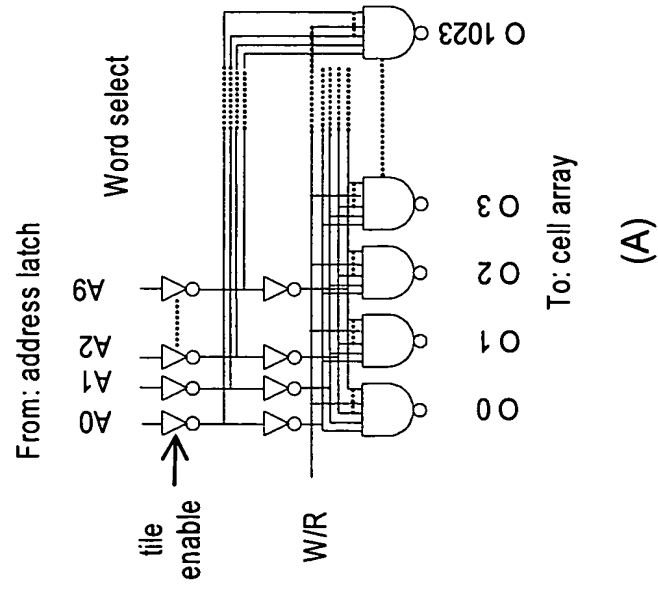


FIG. 38

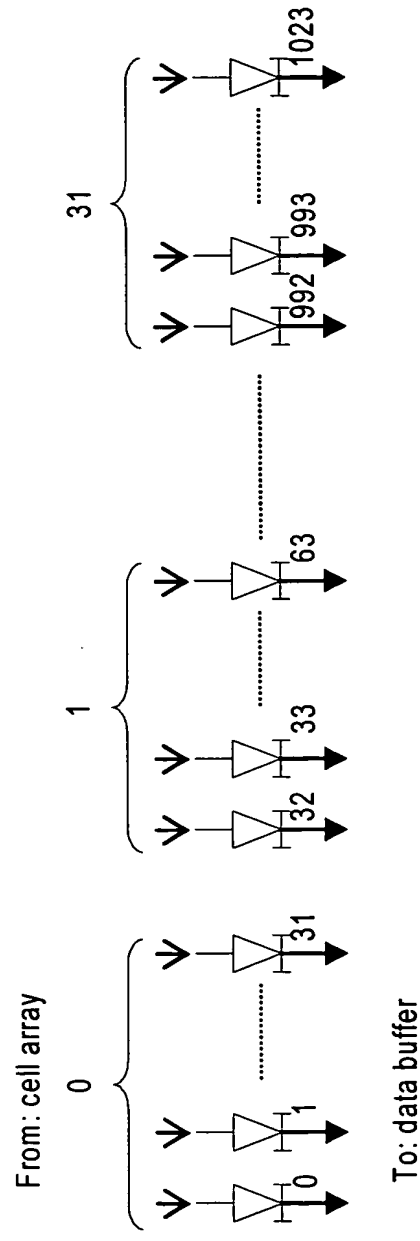


FIG. 39

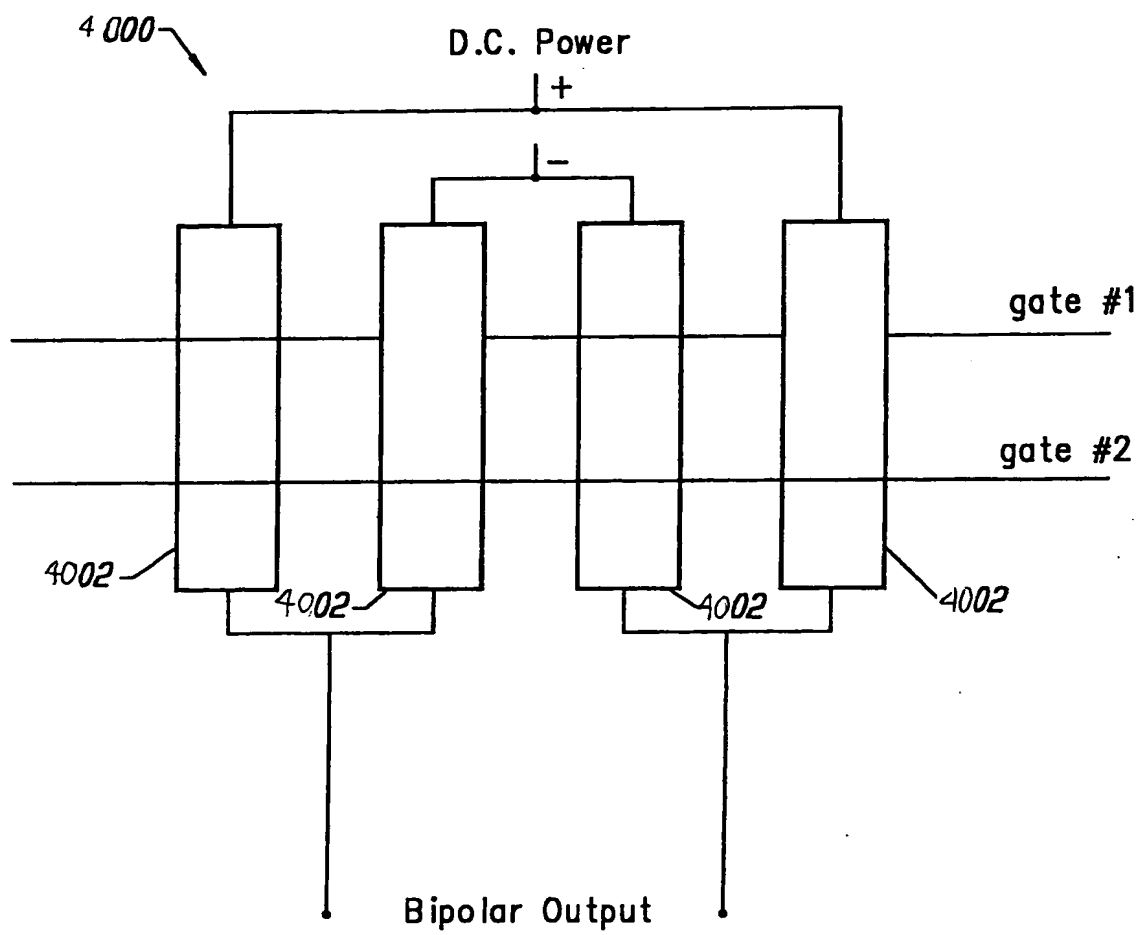


FIG. 40

XOR gate 4100

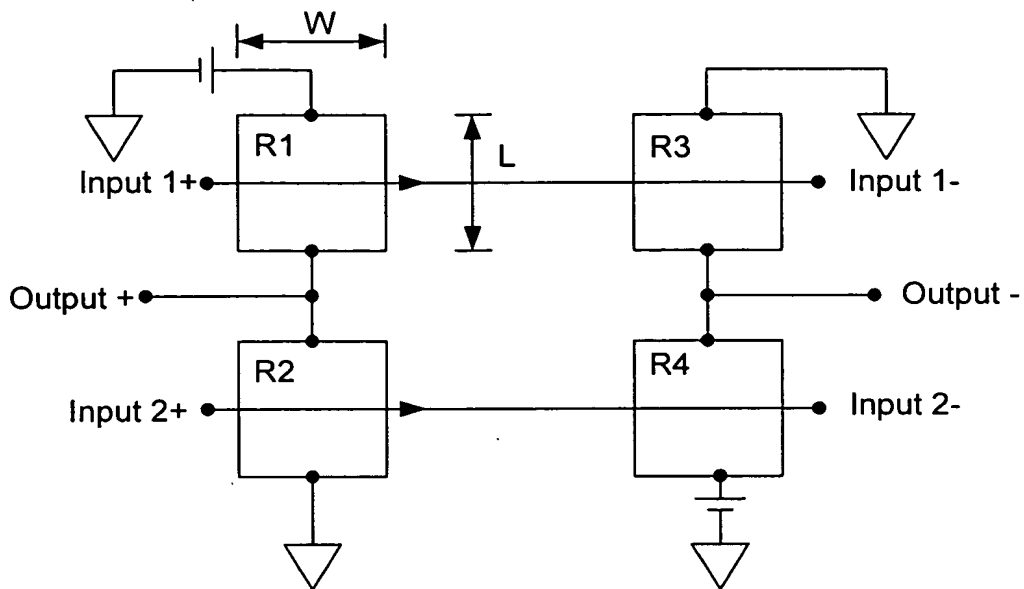


FIG. 41

AND gate 4200

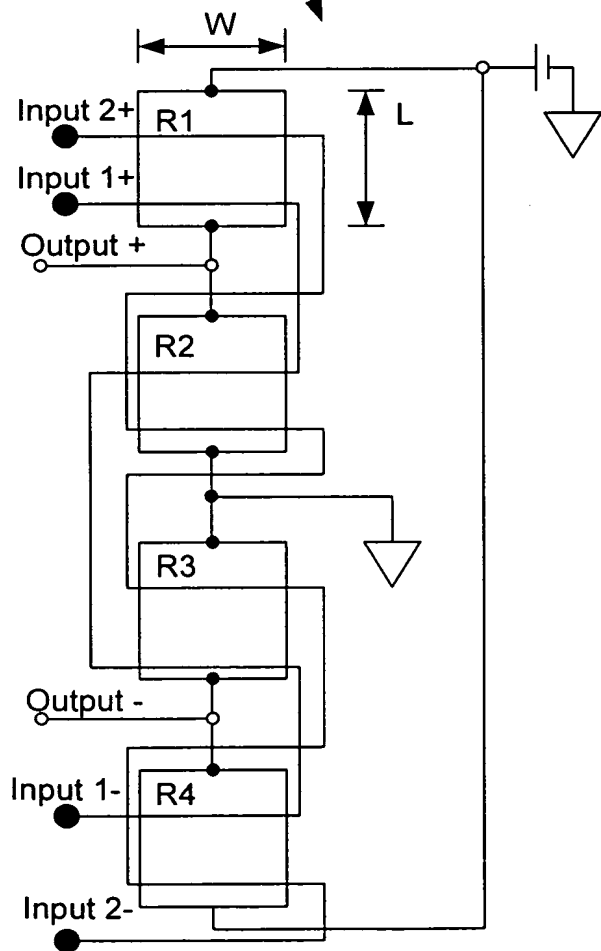


FIG. 42A

OR gate 4250

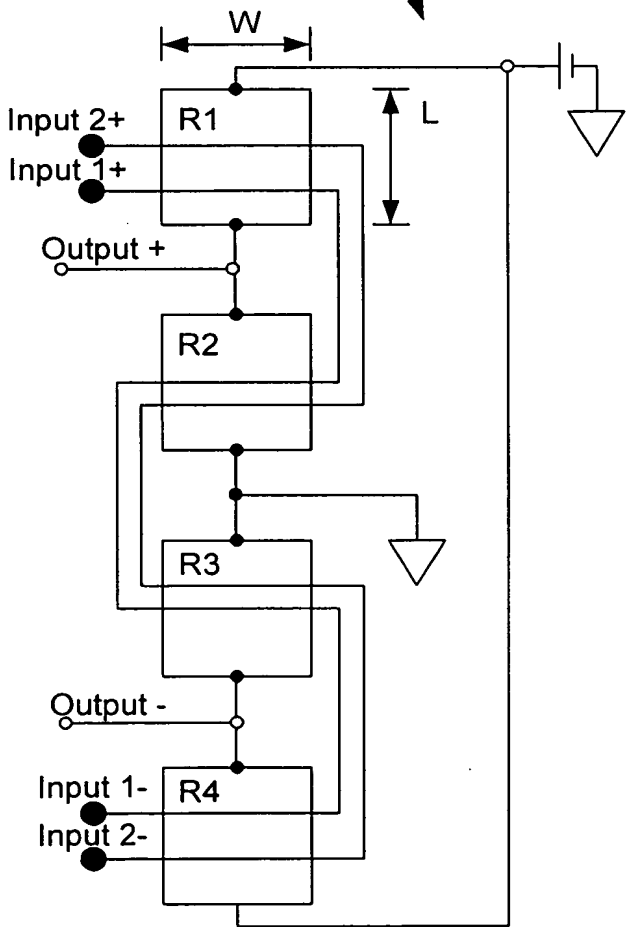


FIG. 42B

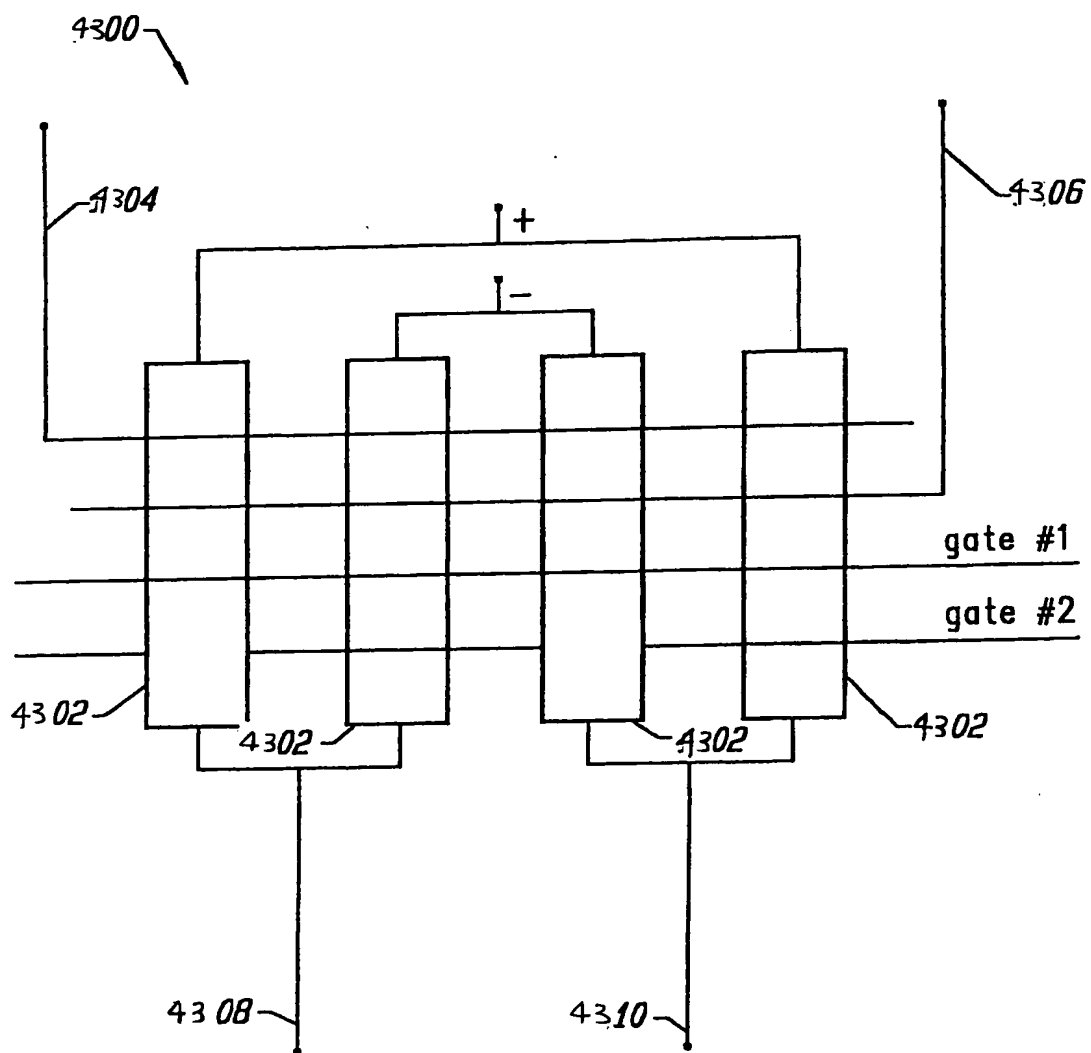


FIG. 43

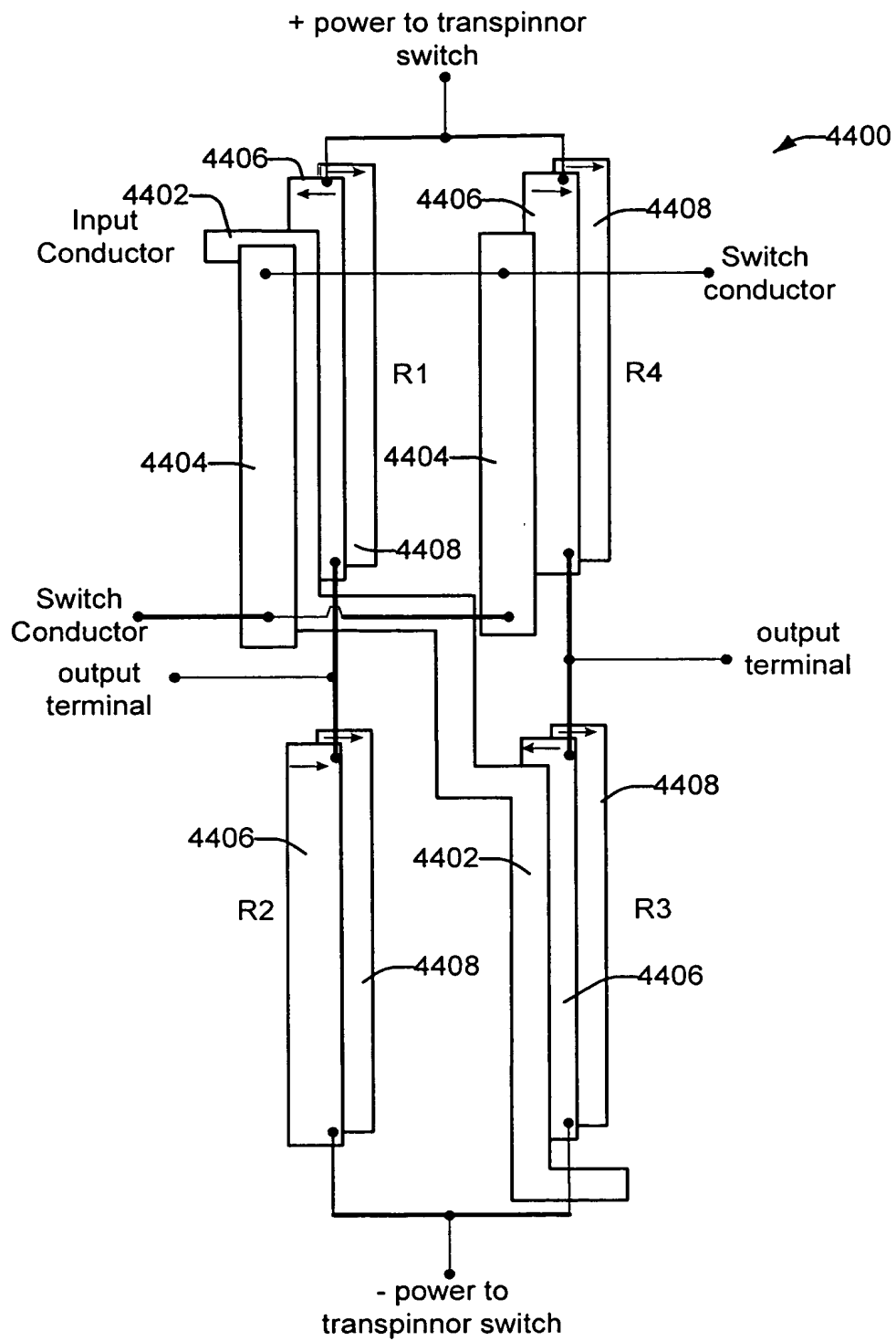


Fig. 44a

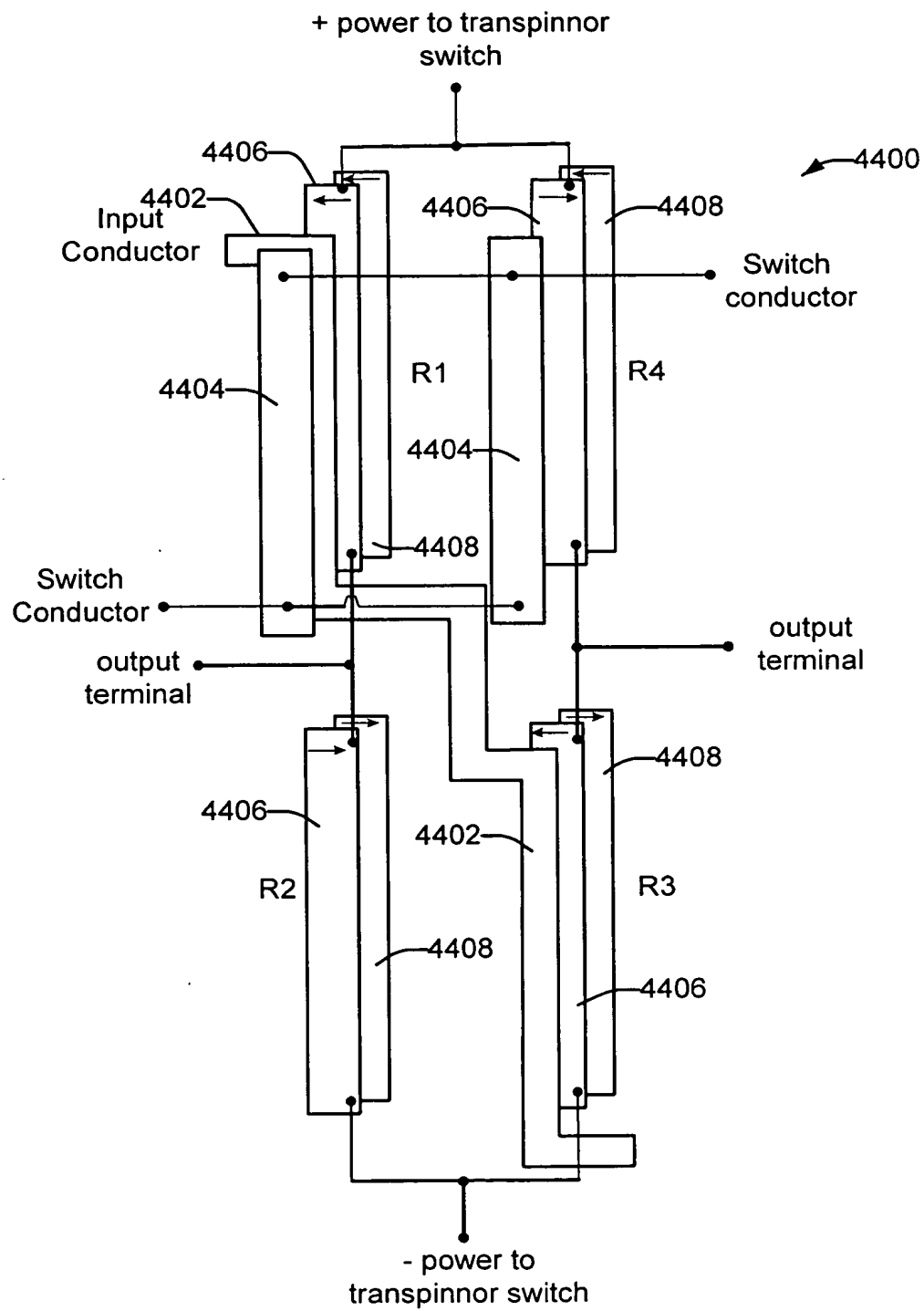


Fig. 44b

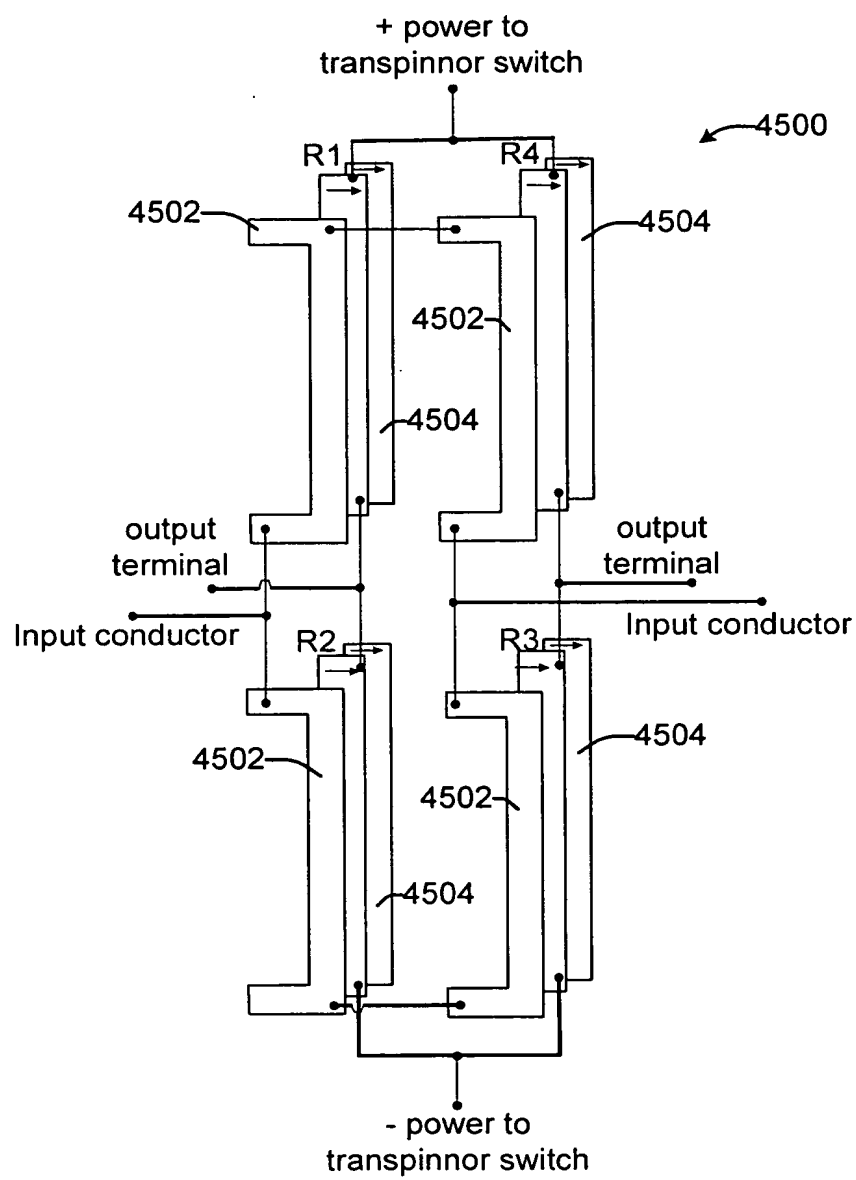


Fig. 45a

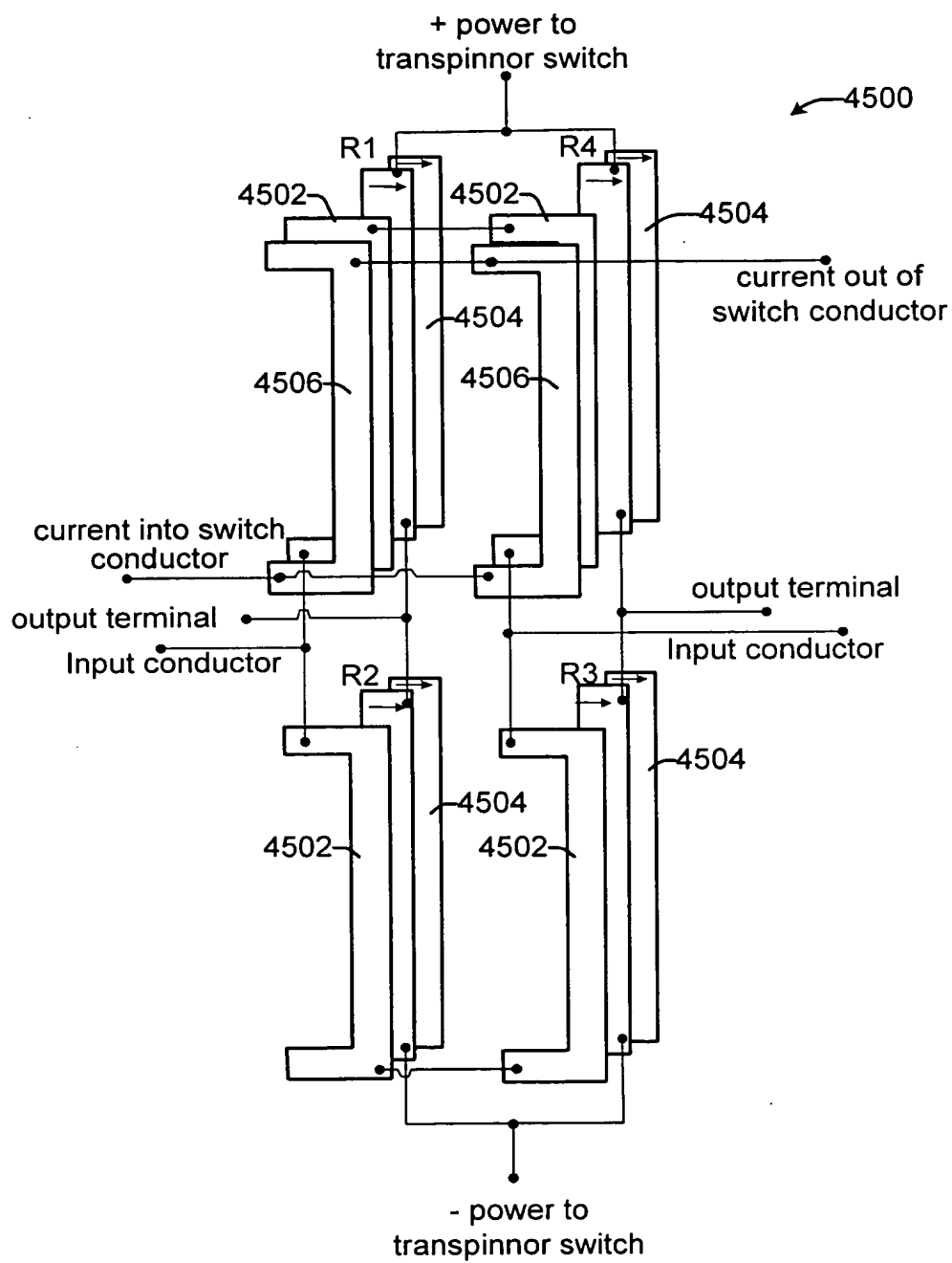
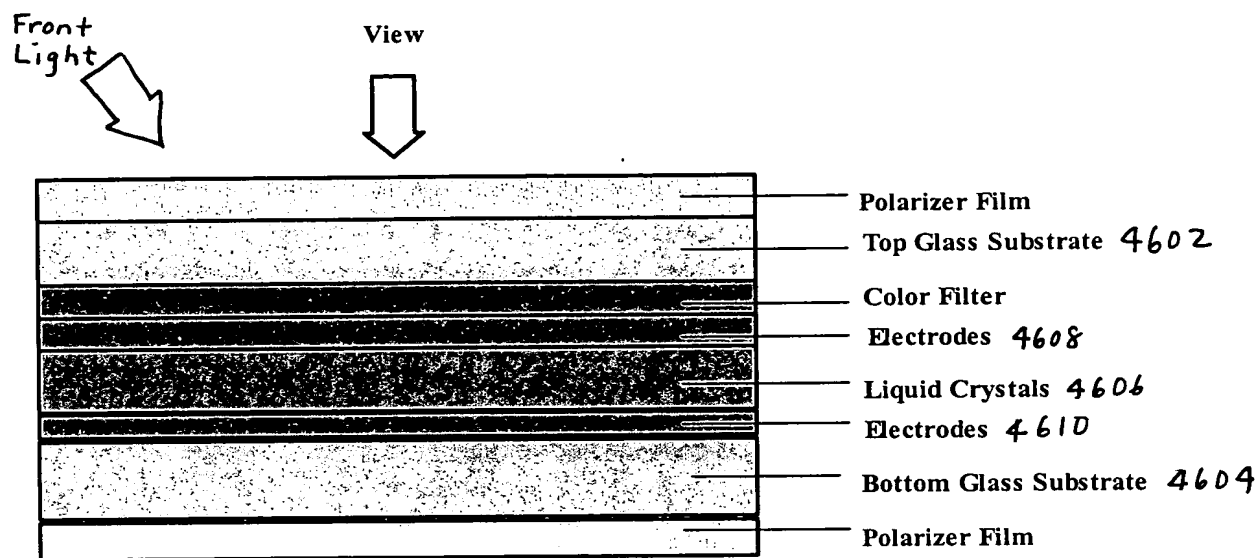
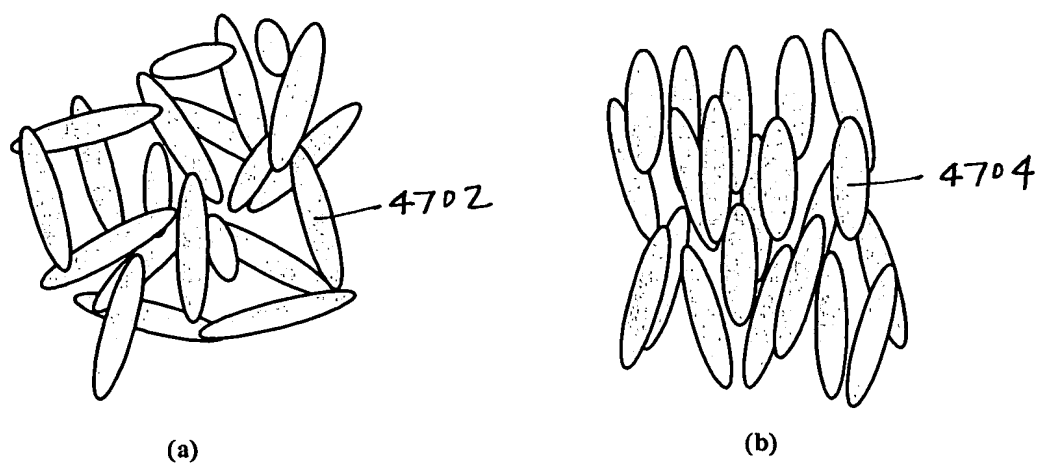


Fig. 45b

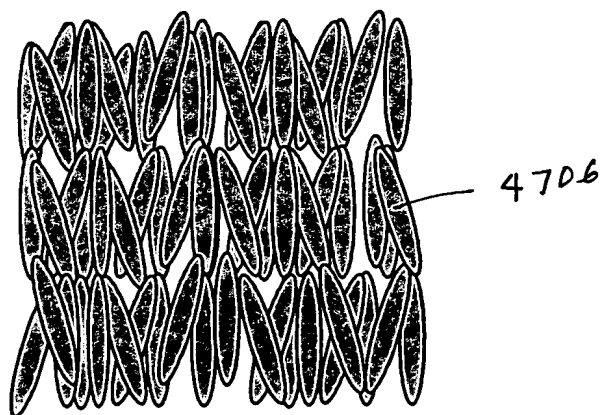


Cross section of typical LCD.

Fig. 46

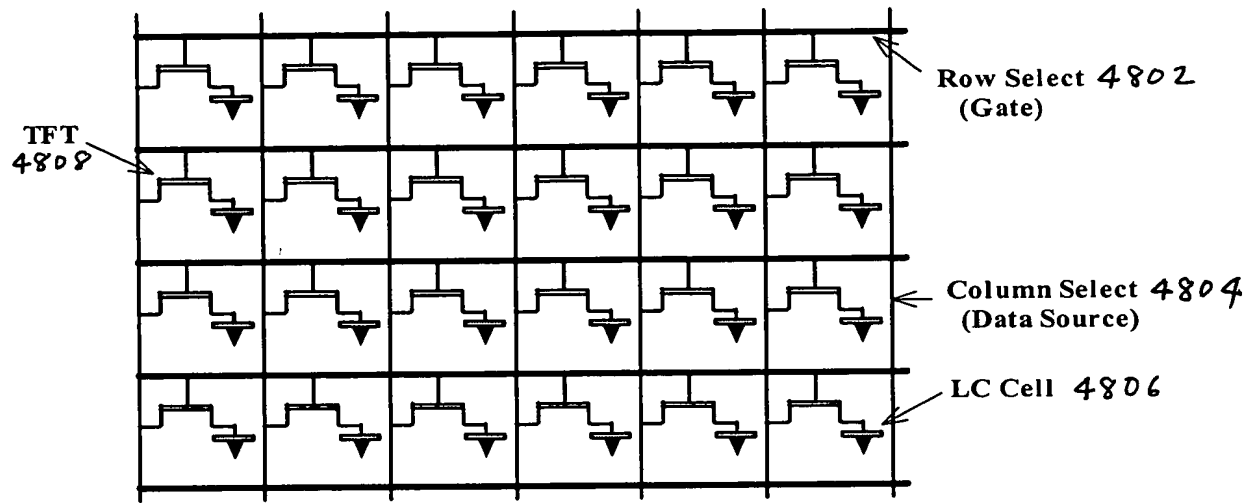


Liquid crystal molecules, (a) in isotropic phase, with no electric field, (b) in nematic phase, under applied electric field.



(c) Liquid crystal molecules in smectic phase, under applied electric field.

Fig. 47



Schematic of TFT active matrix pixel array

Fig. 48

Fig. 49

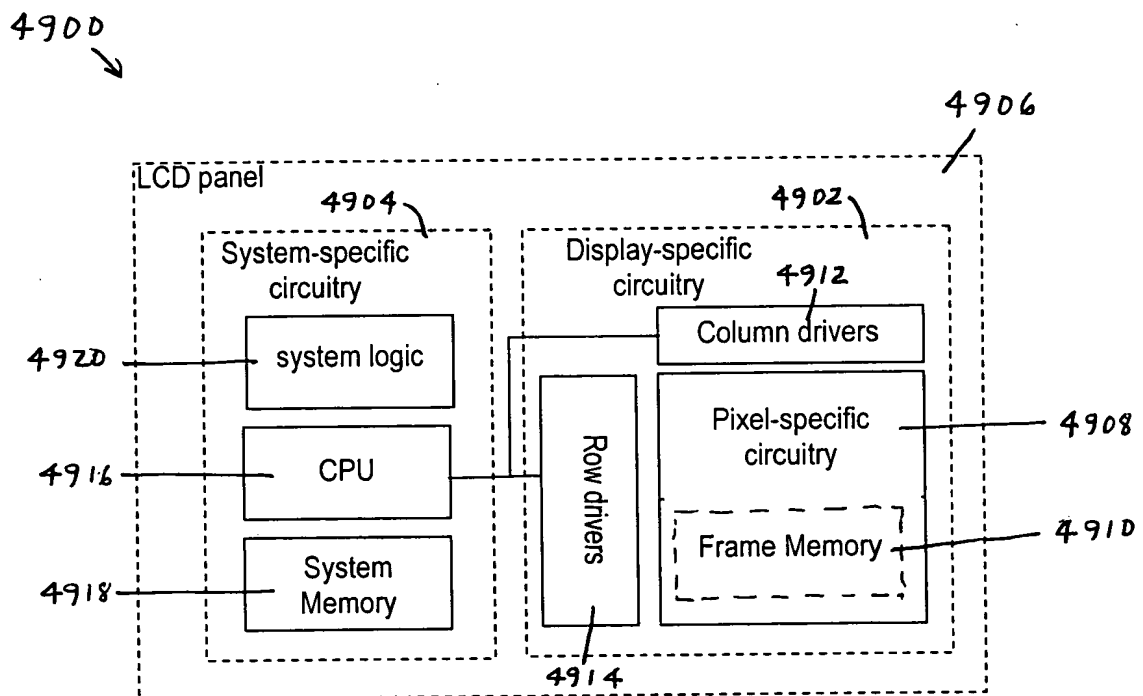
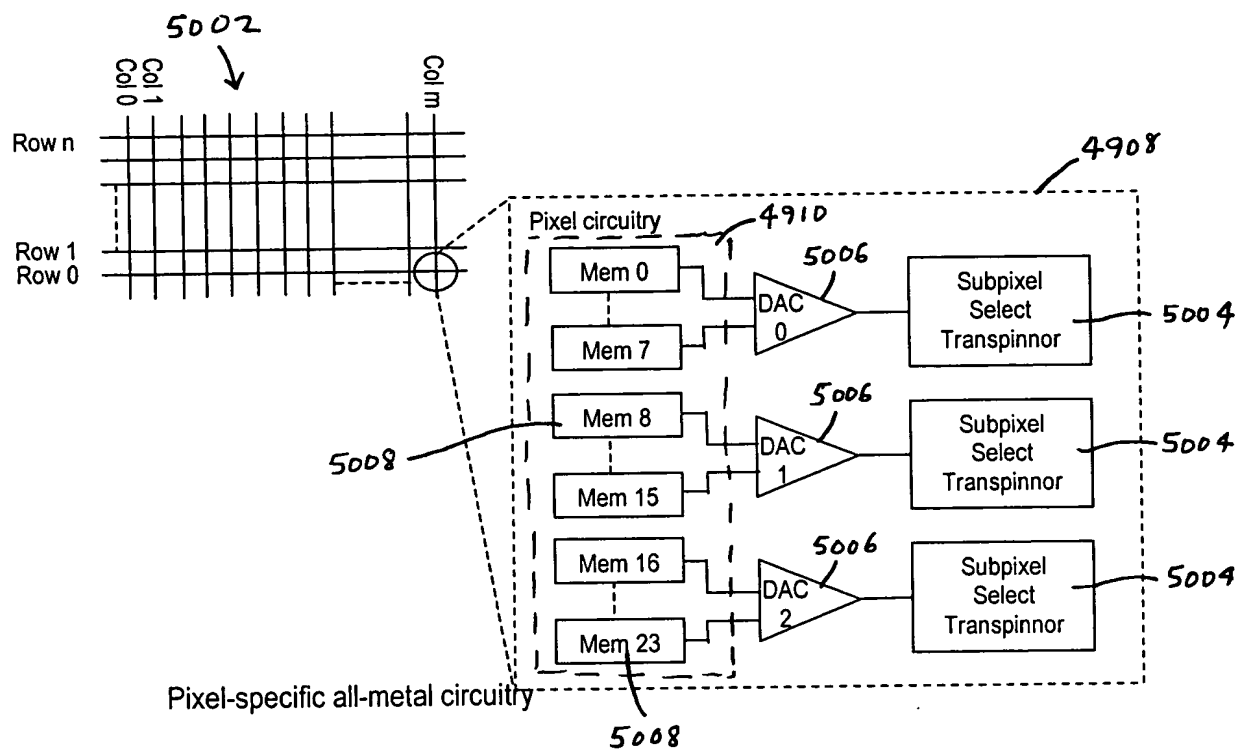


Fig. 50



5100 →

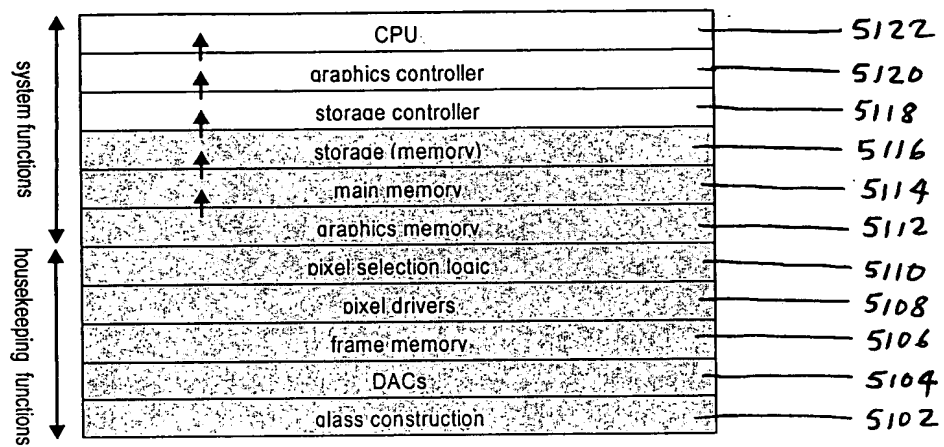


Fig. 51